

Established in ENGLAND, 1859.]

Published Weekly at 42 CANNON STREET, LONDON, E.C. Established in [AUSTRALASIA, 1885.

No. 1,837. Vol. LXXXVI.

APRIL 10, 1915.

Subscription, 10s per annum, including Diary.
Free the World over Single Copies, 6d. each.
Winter and Summer Issues. 1s. each. Post Free.



The Best House for OPIUM and its preparations

PHARMACEUTICAL PRODUCTS
"SILVER CHURN" Dairy Specialities

OLDFIELD, PATTINSON & CO., MANCHESTER



Finest Norwegian

Cod - Liver Oil

Manufactured at
ALLEN & HANBURYS'
own Factories in Norway.

Supplied Packed in Bottles—
Wood's Panelled Flats
Wood's Ovals
American Flats, etc.

4 oz. 4/8; 6 oz. 6/6; 8 oz. 8/4; 10 oz. 10/3; 12 oz. 12/-; 16 oz. 15/8; 20 oz. 19/7; 24 oz. 23/-; 32 oz. 30/4; 40 oz. 37/8 Samples on request.

Allen & Hanburys LONDON. Ltd.







Finest Norwegian

Cod - Liver

Manufactured at
ALLEN & HANBURYS'
own Factories in Norway.

Supplied Packed in Bottles-

Wood's Panelled Flats Wood's Ovals American Flats, etc.

4 oz. 4/8; 6 oz. 6/6; 8 oz. 8/4; 10 oz. 10/3; 12 oz. 12/-; 16 oz. 15/8; 20 oz. 19/7; 24 oz. 23/-; 32 oz. 30/4; 40 oz. 37/8

Samples on request.

Allen & Hanburys

LONDON. Ltd



Index and Buyers' Guide, pp. 5, 6, and 7,

May, Roberts' Traveller.

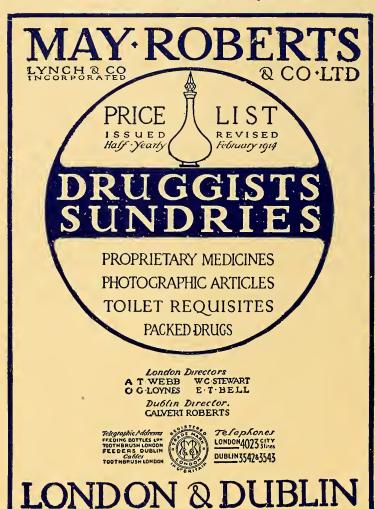
No. 4023 CITY.

APRIL 10, 1915.

LONDON & DUBLIN.

THE APRIL SUPPLEMENT IS NOW READY

and includes all alterations in prices, withdrawals from sale owing to war conditions, together with full details of ENGLISH LINES introduced to replace them.



600 PAGES.

PAGES.

600

We shall be happy to send a copy of our Price List together with the Supplement to any Chemist on receipt of a POSTCARD.

MAY, ROBERTS & CO. LTD. 7, 9 & 11 Clerkenwell Road, LONDON, E.C.

AND 16 WESTMORELAND STREET, DUBLIN.

1

PERFECT SOLUBLE ESSENCE

OF

LEMON

ACHIEVES
ANOTHER TRIUMPH.

THE LEMONADE WHICH GAINED THE

GOLD MEDAL

IN THE BREWER'S EXHIBITION COMPETITION

1914

WAS PREPARED WITH THIS ESSENCE.

STEVENSON & HOWELL, LTD. SOUTHWARK STREET, LONDON, S.E.

Telephone: Avenue 5183.

Telegraphic Address: "ERLANALL, DEN, LONDON."

SUPPLEMENTARY WAR LIST.

MARCH 1915.

R. LANE-HALL & CO., 4 LLOYD'S AVENUE, LONDON, E.C.

We can offer on the spot and arriving:

PHARMACEUTICAL PRODUCTS.

Beta-Naphthol Salic	vlate				×		Formerly	known as	"Thioform"
Bismuth Carbonate	•••			•••					
., Subnit.	•••	•••	•••						
Cotarnine Hydrochle				•••		•••		,,	"Stypticine"
Diethylbarbituric Ac							"		" Veronal"
Dimethylaminoantip		•••					• •	• •	"Pyramidon"
Guaiacol Carbonate				•••	•••	•••	* 1	• • •	" Duotal "
		•••	•••	•••	•••	•••	*1	,,	"Urotropine"
Hexamethylenetetra			1	 4 la l a	- Cit.	- 4 0	**	**	
1)	2	innyc	irome	tnyie	n Citr	ate	**	"	"Formamol" or "Helmitol"
Ichthosulphol	•••	•••				•••	,,	,,	"Ichthyol Ammon"
Methylacetanilid	***	•••	•••	•••	•••	•••	**	**	"Exalgine"
Methylendittan	•••	•••	•••	•••			**	.,	"Tannoform"
Naphthol Benzoate			•••	•••					
Naphthol Salicylate			•••				,,		" Betol "
Potassium ortho-oxy	-quin	line	Sulfor	nate			,,	,,	"Chinosol"
Potassium Guaiacol								•	
Quinine Ethyl Carbo			•••	•••			,,	,,	"Uguinine"
Salol		•••		•••					
Silver Colloidale	•••	•••	•••				,,	.,	"Collargol"
Nucleinate							,,	,,	"Argyrol"
Proteinate			•••					**	"Protargol"
Theobromin Sodium			•••					,,	"Agurine"
Theobromin Sodium							,,		"Diuretine"
Incomonium Doublin	Carre	,	•••	•••	•••	•••	,,	,,	2.4. 000

PHOTOGRAPHIC CHEMICALS.

Diamidophenol Hydrochlor.			•••	Fo	rmerly	known	as "Amidol"
Hypo Soda			•••				
Hydroquinone	•••	•••	•••	•••			
Monomethylparamidophenol	Sulpha	te					" Metol "
Soda Sulphate Pea Crystals	•••		***				

ESSENTIAL OILS AND PERFUMERY PRODUCTS.

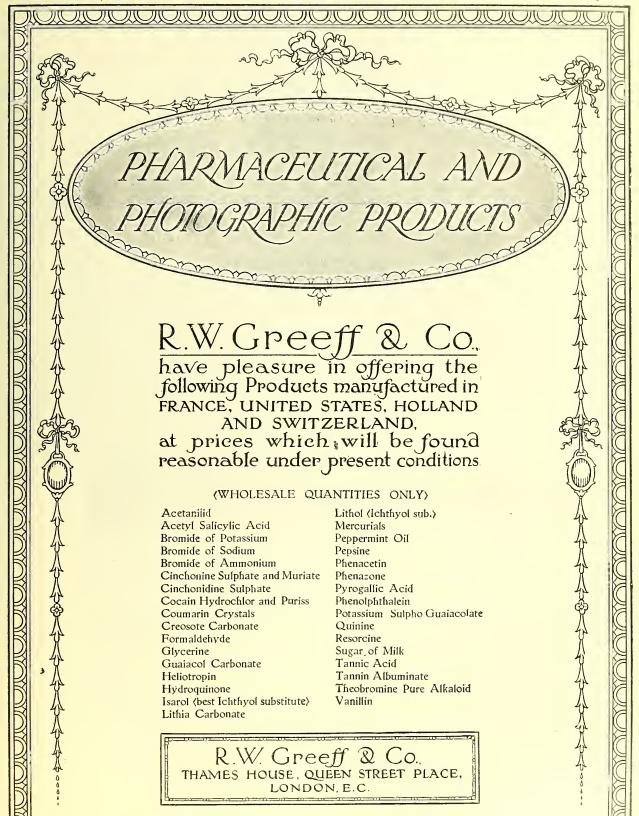
Citral
Jasmin Blanc
Lavender Spike
,, Mont Blanc
Lemon Oil

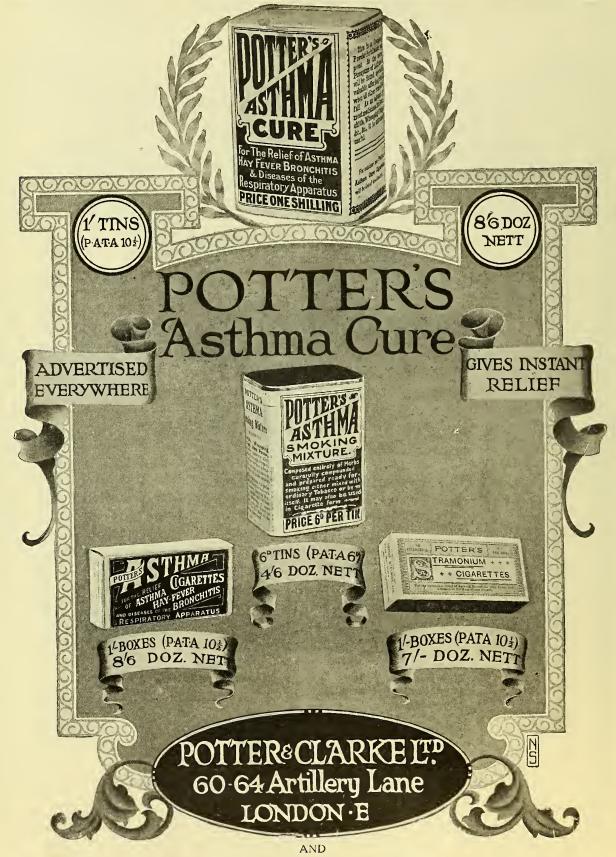
Maratine Pine Neroli Petali Otto of Rose, Bulgarian ,, Artificial Phenyl-ethyl-alcohol Rose Water (Carboys) Vanilline Violet C. Wintergreen Oil, Pure

MINERAL OIL.—Half-White Mineral Oil.

Prices on application. Products listed are in stock or in course of delivery from Works.

All offers from stock and forward delivery are subject to sale and safe arrival in England.





24 LUNA STREET, GREAT ANCOATS, MANCHESTER,

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: Chemicus, Cannon, London. Telephone No. 3617 Central (3 lines)
Branch Offices: Melbourne, Sydney, and Adelaide, Australia.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in front of the literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xii).

Po mo		Pages are number		Page
Page		Galen Manufacturing Co., Ltd. viii		
Acme Chem. Co., Ltd 24	Coleman & Co., Ltd 19	Gledhill, G. H., & Sons, Ltd 26	Lueders George, & Co	Sanitas Co. Ltd Text 480
Aerators, Ltd 25	College of Preceptors	Globe Box Co	Macfarlan, J. F., & Co xii	Schutze, F., & Co., Ltd 9
Alexandre, L ix	Cooper, Son & Co., Ltdviii	Goldherg, I. L. viji	M'Glashan, D	Securitas Co., Ltd iv
Allen & Hanhurys, Ltd Cover	Coulsworthy Table Water 18		Macnair, A., & Co. viii	Sim, Ltd ii
Alliance Drug and Chemical Co. v	Crawshaw, E., & Co ix	Gower, J	Magnus, Mabee & Reynard xi	Smith, T. & H., Ltd ili
Anzora Perfumery Co 10	Cupal, Ltd. 32	Greeff, R. W., & Co 3		Solport Bros
Association of Manufacturing		Hackett, S. E Col. Supp.	Mangold, C., & Co vi Markt & Co. (London), Ltd 13	South of England College 2i
Chemists, Ltd8	Cuxson, Gerrard & Co., Ltd 28	Halder, E. C viii		Spatula Co 2i
Avery, W. T., LtdCover	Dale, John, Manfg. Co 27	Harker, C.R., Stagg& Morgan, Ltd. 10	Maw, S., Son & Sons	Stevenson & Howell, Ltd 1
Baker, Parson C Col. Supp.	Davis, J. M., & Sons ix	Harley, T 24	May, Roberts & Co., Ltd Cover	Stipendum Stopper Co 16
Barker, R. Wtext 480	Deions, Ltdviii	Haywood, J. H., Ltd x	Mellin's Food, Ltd 7	Sturge, J. & E., Ltd iii
Barnett & Foster, Ltd i	Digestive Ferments Co 25	Hertz & Co 14	Millar, A., & Co., Ltd iv	Tempiar-Malins, Ltdvini
Beetham, M., & Son 15	Dodge & Clcott Co 23	Holiday & Co 8	Monsanto Chemical Works ii	Tidman & Son, Ltd iv
Beghe & Chiapetta vi	Dore, J., & Co	Hubbuck, T., & Son, Ltd ii	Newball & Mason	Tomlinson, T., & Son Col. Supp.
Benton & Stone, L'd vii	Duncan, Flockhart & Co vl	Huisking, C. L 8	Northern College	Tompkins, James, Ltd viii
Berdoe & Fish	Ellison, H., Ltd viii	Ingram, J. G., & Son x	Orridge & Co	Teogcod, W., Ltd 16
Bewley & Draper, Ltd 17	Evans Sons Lescher & Webb,	Isaacs, I., & Co 9	Parnall & Sons 23	Turner, J 18
Boake Roherts, A., & Co., Ltd 13	Ltd 8	Jewsbury & Brown 18	Pascali, Jas., Ltd 18	Van Horn & Sawtellix
Bowley, S., & Son 9	Exchange ColumnCol. Supp.	Jeyes' Sanitary Compds., Ld 24	Peat ProductsCo.(Spingnol),Ld. vii	Verona Chemicai Co vii
Bramweli, E., & Son, Ltd viii	Expurge Manufacturing Co xi	Josephs, P., & Sons, Ltd. Col. Supp.	Perkin, Son & Co 23	Vis ose Development Co., Ltd 16
Brett & Co	Fairchild Bros. & Foster 32	Kay Bros., Ltd iv	Pelliot, Henri, & Cie ii	Washington Chemical Co., Ltd. iv
British Drug Houses, Ltd Cover	Fentiman, A. G viii	Kelland, W. P 26	Pillischer, J., Ltd xi	Westminster Coll. of Pharmacy 20
Brown & Son 27	Fentiman, A. J., & Co viii	Lane-Hall, R., & Co 2	Potter & Clarke, Ltd 4	Whiffen & Sons, Ltd iv
Brytstele Manfg. Coix	Ferris & Co., Ltd x	Lang, Jules, & Son xl	Raworth, J. E viii	Wiener, R. O., & Co vii
Buncher & Haselar, Ltd viii	Flnk, F., & Co viii	Lescol Perfumery Co 12	Reitmeyer & Co 30	Wilcox, Jozean & Co Text 480
Burge, Warren & Ridgley, Ltd. 22	Fletcher, Fletcher & Co., Ltd.	Levermore, A., & Co., Ltd viii	Roberts'Patent Filling Mach.Co. 26	Wilkinson, J. F 28
Burgoyne, Burbidges & Co 29	Text 480	Lewis, H. K	Robinson & Sons, Ltd 17	Wladyslaw Hoffmann & Co vi
Burrough, J., Ltd Text 480	Ford, Shapland & Co	Little, D. J., Co 15	Rosmarine Manfg, Co 12	Wright, A. J., Ltd 21
Burroughs Wellcome & Co 31	Frame Food Co	Lincoln Mineral Co 9	Rowe, Wilfrid T	Youldon, E., Ltd ix
Calder, J., & Co., Ltd	Fulham Pottery and Cheavin	Lofthouse & Saltmer, Ltd 18	Rudd, F. M 9	Zimmermann, C., & Co. (Chemi-
Celtol Snpply Agency 16	Filter Co.,Ltd ix		Rudduok & Co Col. Supp.	cals), Ltd
Targett and a second se				

BUYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D.

Absolute Alcohol Burreugh, J., Ltd. Acetanilide Read, Holliday & Sons Ltd. Acetic Anhydride Cellonite Co. Acetyl-Salic ylic Bush, W. J., & Co., Ltd. Kertoot, Thos., & Co. Lane-Hall, R., & Co. Eaad, Holliday & Sons, Ltd. Reitmeyer & Co.

Advertising Degen, F. A. Aerated Water Machinery
Barnett & Foster
Pure Aeration Supply, Ltd.

Aerated-Wat er Materials
Barnett & Fostsr
Boake Roberts & Co., Ltd.
Bnsh, W. J., & Co., Ltd.
Hay, William, Ltd.
Stevenson & Howell, Ltd.

Acrated Waters Camwal, Ltd. Idris & Cc., Ltd.

Agencies, Colonial,

Haisking, Chas. L. Kemp, Campbell & Ce. Lennon. Ltd. Wladyslaw Hoffmann & Co.

Air Oushions Burge, Warren & Ridgley, Ld.

Alkaloids
Burroughs Wellcome & Co.
Drysdale, J. W. & Sons
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Redumes, Ferdinand
Salle, H., & Co. Salle, H., & Co. Smith, T. & H., Ltd.

M Almond Oil" Allen, Stafford, & Sons, Ltd.

Alumintum Articles Bnnoher & Haseler, Ltd. Eley Bros., Ltd. Venesta, Ltd.

Ambulance Outfits Burrenghs Wellcome & Co. Hall Forster & Co., Ltd. Toegood, William, Ltd.

American Chemicals, &c. Huisking, Chas L. Mallinckrodt Chem. Works

American Proprietaries
Amsrican Drug Supply Co.
Roberts & Co.

Ammonia & Salts Brown & Blackhurn Brnnner, Mond & Cc., Ltd.

Ampoules Bresillon. M., & Co. Maw, S. Son, & Sons

Anæstheties
Duncan, Flookhart & Co.
Howards & Sons, Ltd.
Macdarlan, J. F., & Co.
Saccharin Corporation, Ltd.
Smith, T. & H., Ltd.

Aniline Dyes Crawshaw, E., & Co. Lane-Hall, R., & Co.

Annatto
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd. Anti-Rheumatic

Rings Burge, Warrsn & Ridgley, Ld.

Antisepties
Bell (John), Hills & Lneas, Ld.
Celtol Supply Agency
Jayes' Sanitary Compds. Ltd.
Young, R. & Co. Ltd.
Young, R. & Co. Ltd.
Artificial Limbs
Ferris, J. & E.
Haywood, J. H., Ltd.
Maw, S., Son & Sons

Aspirin
Bayer Cc., Ltd.
Keene Laboratories

Asthma Remedies Hair, B. W., & Son Lofthouse & Saltmer, Ltd. Pottsr & Clarke, Ltd.

Atropine Roques, Ferdinand Bacterial Vaccines Christy, Thos., & Co. Evans Sons Lescher & Webb, Ltd. Martindale, Wm. Parke, Davis & Co.

Balsams Dodge & Olcott Co. Barrels Venest Ltd.

Bath Cabinets Riley Bros., Ltd.

Bath Gloves Cuxson, Gerrard & Co., Ltd. Solport Bros.

Bathing Caps Cuxson, Gerrard & Co.

Bed and Douche Pans Meinecke & Co.

Biological Products Christy, Thos., & Co.

Bleeding Bowls Meinecke & Co.

Bismuth Salts

Hismuth Satts
Alliance Drug & Chem. Co.
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Lane-Hall, R., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, Alfred, & Sons

Blotting Paper Ford, T. B., Ltd.

Body Belts
Berton, Arthur. Ltd.
Maw, S., Son & Sons
Sohutze, F., & Co., Ltd.
Wood, Vincent

Books, &c.

Christy's "Monthly"
Churchill, J. & A.
Martindale's "Extra Pharm"
"Spatula, The"
Squire's "Companion"

Botanie Druggists Brook, Parker & Co. Ltd. Newhall & Mason Potter & Clarke, Ltd.

Potter & Clarke, Ltd.

Bottles, Jars, &c.,
Glass
Barnett & Foster
Beatson, Clark & Co., Ltd.
Ferry, T., & Son, Ltd.
Fost, T., & Son, Ltd.
Fost, H., & Co.
Swalss, Thomas
Universal Bottis Co
Youldon, E., Ltd.
Bougies

Bougles

Bougles
Bresillon, M., & Co.

Boxes

Ayrton, Saunders & Co., Ltd.
Estes, E. B., & Sons, Ltd.
Ford, Shapland & Co.
Globe Box Co. ulope Box Co.
Robinson & Sons, Ltd.
Shirley Bros., Ltd.
Stevenson, H., & Sons, Ltd.
Stlpendum Stopper Co.
Waide, T., & Sons

Bromides Greeff, R. W., & Co. Roques Ferdinand

Brushes
Bidwell, Bidwell & Co., Ltd.
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Titterton & Howard

Bunion Reducer Scholl Mnfg. Co., Ltd. Butter Colouring Fullwood, R. J., & Bland Oldfield, Pattinson & Co.

Cachets Cooper, Son & Co., Ltd. Cacodylates Roques, Fardinand Calf Lymph Heinemann, W. Cameras

Cameras
Butcher, W., & Sons, Ltd.
Camphor
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd. Cantharidin

Smith, T. & H., Ltd. Caps for Bottles, &c.

Betts & Co., Ltd.
Darter, Wilkinson & Co.
Smith Bros. & Co., Ltd.
Viscose Development Co., Ld.
(Self-fixing and Airtight)

Capsuled Pills McKesson & Robbins

McKesson & Robbins

Capsules (various)

BritishOrganotherapyCo.,Ld.

Denoual, Jules, & Co.

Evans Sons Lescher & Webb,

Mawson & Co.

Raimes, Clark & Co., Ltd.

Stevenson, H. E., & Co.

Tye, John, & Son

Warrick Bros. Ltd.

Carbon Tetrachloride Securitas Co., Ltd.

Cartons
Globe Box Co.
Robinson & Sons, Ltd.
Suttley & Silverlock, Ltd.

Casein
British Casein Co. (1911), Ltd.

Cash Tills Gledhill, G. H., & Sons, Ltd. National CashRegisterCo.Ld.

Catheters

Mason Bros. & Chapman
Warne, Wm., & Co., Ltd. Caustic Soda Brunner, Mond & Co., Ltd.

Cellulose Acetate Cellonite Co.

Cements Kay Bros., Ltd. Mendit, Ltd.

Chalk, Precipitated Levermore, A., & Co., Ltd. Mumford, G. S., & Sons Nichols Chemical Co., Ltd. Sturge, John & E., Ltd.

Chamomile Oil Allen, Stafford, & Sons, Ltd.

Chemicals
Baiss Bros. & Stevenson, Ltd.
Boake Roberts & Co., Ltd.
Bookn, F., Ltd.
Bramwell, E., & Son, Ltd.
Brritish Drug Houses Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burhidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Corbyn Stacey & Co., Ltd.

Drysdale, J. W. & Sons
EvansSonsLescher&Wehb, Ld
Greeff, R. W., & Co.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Lane-Hall, R., & Co.
Mallinckrodt Chem. Works
Martindale, W.
May & Baker, Ltd.
Reitmeyer & Co.
Saccharin Corporation, Ltd.
Scheller, Emil, & Co., A. G.
Southall Bros. & Barclay, Ltd.
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons
Zimmermann, C., & Co.
(Chemicals), Ltd.

Chloride of Lime Brnner, Mond & Co., Ltd.

Chlorodyne
Davenport, J. T., Ltd.
Freeman's Chlorodyne, Ltd

Chloroform Chloroform
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Mactarian, J. F., & Co.
May & Baker, Ltd.
Smith T. & H., Ltd.
Southall Bros. & Barclay, Ltd

Cigars & Cigarettes
Singleton & Cole, Ltd.
Citric Acid and
Citrates
BritishDrugHouses, Ltd., The
Burgone, Burbidges & Co.
Howards & Sons, Ltd.
Pelliot, Henri, & Cie
Sturge, John & E., Ltd. Clinical

Thermometers Lagrande eters Burge, Warren & Ridgley, Id. Bnsh, H. W., & Co., Ltd. Hloks, James J. Maw, S., Son & Sons Perken, Son & Co., Ltd. Pillischer, J. Powell, J. T., & Co Zeal, G. H.

Cloth Balls O'Neil, Zetts & Cc. Senier, Alf., & Co.

Coal Tar Specialities Wright, Layman&Umney,Ld. Cocaine Roques, Ferdinand

Cocoa British Casein Co. (I! Cadbury Bros., Ltd. Plasmon, Ltd. (1911), Ltd.

Cod Liver Oil Arnfield, J. C., & Sons, Ltd.
British Drug Houses, Ld., The
Bugge, Johann, & Co.
EvansSons Lescher & Web, Ld
Southall Bros. & Barolay, Ltd
Sparks, White & Co., Ltd.
Wright, Layman & Umney, La

Collapsible Boxes Globe Box Co.

Collapsible Tubes Betts & Co., Ltd. Brooks, Peel & Co Venesta, Ltd.

Combs Hovenden, R., & Sons, Ltd.

Condensers Bennett, Sons & Shears, Ltd.

Confectionery, Medicated Gnest, Thos., & Co. Pascall, James, Ltd.

Continental Props.

Bresillon, M., & Co. Roberts & Cc. Wilcox, Jozean & Co.

Coppersmiths Dore, John, & Co.

Corks Mitchell, N. W., & Sons, Ltd Corn Plasters

Coumarin Zimmermann, C.,& Co., Ltd.

Counter Adjuncts EvansSonsLescher&Webb,Ld Counter

Specialities
Alien & Hanburys, Ltd.
British Drug Houses, Ld. The
Burgoyne, Burbidges & Co.
Hewlett, C. J., & Sons, Ltd.
Sonthall Bros. & Barolay, Ltd.
Wright, Layman & Umney, Ld.

Counting and Filling Machine Forgrove Machinery Co.,Ltd

Court Plaster

Solport Bros. Cream of Tartar Pellict, Henri, & Cie

Creosote Baiss Bros. & Stevenson, Ltd

Crepe Bandages Gimber, W., & Son Burge, Warren&Ridgiey, Ltd. NorwiohCrepe Co. (1856), Ltd. Wood, Vincent

Cyanides May & Baker, Ltd.

Dairy Specialities Fullwood, R. J., & Bland Oldfield, Pattlnson & Co. Tomlinson & Hayward, Ltd.

Dental Mechanics Fentiman, A. G. Fentiman, A. J., & Co. Halder, E. C. Templar Malins, Ltd. Wardale, F. C., & Co.

Dentifrices
Beecham, T.
Bell (John), Hills & Lucas, Ld.
Berton, Arthur, Ltd.
Blackie, Robert
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Genell, John, & Co., Ltd.
Genell, John, & Co., Ltd.
McKesson & Robhins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davis & Co.
Sangers
Standard Tablet & Pill Co., Ld.
Woolley, J., Sons & Co., Ltd.
Developers(Photo.) Dentifrices

Evans Sons Lescher & Wehl Johnson & Sons (Mig. Chts.) Fink, F., & Co. Diabetic Foods an Ahhott, G., & Sons Diamidophenol

Digestive Products Fairchild Bros. & Foster Dimethylaminoantipyrin Lane-Hall, R., & Co. e-Hall, R., & Co. **Disinfectants**

Disinfectants
Baiss Bros. & Stevenson, Ltd
Burgoyne, Burbidges & Oo.
Burt, Boulton & Haywood, Ld
Condy & Mitchell, Ltd.
Cook, E., & Co. Ltd.
Harker, Stagg & Morgan, Ltd.
Jeyes' Sanitary Compds. Ltd
Reichwald, A., Ltd.
Standardised Disinfectants
Co. Ltd.

Co. Ltd. Stevenson, H. E., & Co. Willows, Francis, B. & T., Ltd Wright, Layman& Umney, Ld Drnggists'Sundries Drnggists'Sundries
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ld.
Burgoyne, Burbidges & Co.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
EvansSonsLescher& Webb, Ld
Hovenden, R., & Sons, Ltd.
Hovenden, R., & Sons, Ltd. Evanssons Lescher& Web. Hovenden, R., & Sons, Ltd Longeroft, H. M. Maw, S., Son & Sons May, Roherts & Co., Ltd. Newbery, F., & Sons, Ltd. Quelch, H. C., & Co.,

gueru, H. C., & Co.,
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd
Swales, Thomas
Toogood, W., Ltd.
Wrolley, J., Sons & Co., Ltd.
Drugs, Crude
Burkett, Sharp & Co.
Gathergood's Exor.
Goodal

Earthenware Jars,

Earthenware Jars, &c.
Fulham Pottery and Cheavin Filter Co., Ltd.
Eau de Cologne
Bronnley, H., & Co., Ltd.
Christy, Thos., & Co.
Erasmic Co., Ltd.
Co., Ltd.
Lescol Perfumery Co.
Maw, S., Son & Sons
Eay, Roberts & Co., Ltd.
Sangers'
Sebntze, F., & Co., Ltd.
Vinolia Co., Ltd.

Educational
Institutions
Bath&WestofEnglandCollege
Birmingbam and Midland

Birmingbam and Midland College British Optical Institute College British Optical Institute College of Preceptors Bit's College Liverpool School of Pharmacy Hothod College of Pharmacy School of Pharmacy South of England College Westminster College Westminster College Elastic Gum Insts.

Mason Bros. & Chapman

Elastic Hosiory
yrton, Saunders & Co., Ltd.
urge, Warren & Ridgley, Ld.
laywood, J. H., Ltd.
law. S., Son & Sons
Yood, Vincent
Electrical

Novelties
Ward & Goldstone
Wright, Archd. J.. Ltd.
Emery and Cioth
Oakey, J., & Sons, Ltd.
Emetine Salts

Carnegie Bros.
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd Emulsifiers
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.
Emulsions, C.L.O.,

Arnfield, J. C., & Sons, Ltd. Ayrton, Saunders & Co., Ltd. Ayrton, Setvenson, Ltd. Baiss Bros. & Stevenson, Ltd. Blaokie, Robert Browning, Wm., & Co.

Oupal, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.,
Stevenson, H. E., & Co.
Wyleys, Ltd.
Enamelled Hos-

Enamelled Hospital Requisites
Orme, Evans & Co., Ltd.
Endolytic Tubes
Fletcher & Co., Ltd.
Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Co., Ltd.
Epsom Saits
Howards & Sons, Ltd.
May & Baker, Ltd.
Essences,

Essences,

Essences,

Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roherts & Co., Ltd.
Bush, W. J., & Co., Ltd.
London Essence Co.
Stevenson & Howell, Ltd
Ethers
Baiss Bros. & Steveson, Ltd.
Juncan, Flockhart & Co.
Howards & Sons, Ltd.
MacGarlan, J. F., & Co.
May & Baker, Ltd.
Lyrer, T., & Co., Ltd.
White, A., & Sons
Eucalyptus Oil
Stitleh Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.
Tasmanian Eucalyptus Oil Co.
Tasmanian Eucalyptus Oil Co.

Extract of Herbs Newhall & Mason Potter & Clarke, Ltd.

Extracts (Medicinal) Allen, Stafford, & Sons, Ltd.
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co.
EvansSons Lescher& Webb, Ld.
EvansSons Lescher& Webb, Ld.
EvansSons Lescher& Webb, Ld.
EvansSons Lescher& Webb, Ld.
Evanson, W. & Son, Ltd.
Factory, &c., Stes
Great Western Railway
Feeding Bottles
Busb, H. W. & Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
May, S., Son & Sons
Schutze, F., & Co., Ltd.
Filling Machines
Forzrove Machinery Co., Ltd.
Jackson, J. G., Ltd.
Robert's Pat. Filling Mach Co.
Filter Papers
Ford, T. B., Ltd.
Finger Stalls
Solport Eros
Flower Otts

Solport Bros Flower Oils Zimmermann, C., & Co.
Flycatchers
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.

Kay Bros., Ltd.
Smith, Jno. H., & Co.
Foods, Invalid, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benser's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
British Milk Products Co., Ld
Colman, J. & J., Ltd.
Deans, Logan & Co., Ltd.
Deans, Logan & Co., Ltd.
Lorimer, John
Lorthonse & Saltmer, Ltd.
Mellins Food Co., Ltd.
Natural Food Co., Ltd.
Sister Lauras Infant Food Co.
Soathall Bros. & Barclay, Ltd
Willows, Francis, B. & T., Ltd.
Food. & A. Co.
Fool. & A. Co.

Foot Appliances

Foot Appliances
Scholl Mnig. Co., Ltd.
Fruit Drink
McGlashan, D.
Fuller's Earth
Mumford, G. S., & Sons
Fuller's Carth
Gallic Acid
Mallinckrodt Chem. Works
Glassware,
Chemical

Chemical
Lang, Jules, & Son
Clycerin
Price's Patent Candle Co., Ltd.
Glycerophosphates
Monsanto Chemical Works
Reitmeyer & Co.

Grease Paints Osborne, Garrett & Co. Quelch, Henry C., & Co. Grease Remover Perkin & Co., Ltd.

Perkin & Co., Ltd. **Grinders, Drug, &c.**Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B, & T., Ltd. **Gripe Water**Woodward, W., Ltd. **Gums**Fink, F., & Co.
Kldston, W. M., & Co.
Lambert Saml., & Co.

Hair Dyes Harker, C.R., Stagg & Morgan Blackie, Robert

Hair Preparations
Alexandre, L.
Anzora Perfumery Co.
Blackie, Eobert
Edwards' "Harlene" Co.
Oshorne, Garrett & Co.
Sangers

Sangers
Tokalon Ltd.
Hand Carts, Crewe & C Trucks, &c.

Hat Cleaners
Cox, Arthur H., & Co., Ltd.
Milner's Chewical Co.
Senier, Aff., & Co.
Hat Dyes

Hat Dyes
Whitaker & Co.
Herbs
Potter & Clarke, Ltd.
Salle, H., & Co.
Hexamethylen-

tetramine Reitmeyer & Co. Homoeopathic

Medicines Ashton & Parsons, Ltd. Keene & Ashwell, Ltd. Leath & Ross

Honey
Western Honey Co.
Horse Remedies
Harvey & Co. (Duhlin), Ltd.
Hospital
Furniture

Gray & Selby
Hospital Ware
(Semi-porcelain)

(Semi-porcelain)
Meinecke & Co.
Hot Air Douches
Ward & Goldstone
Hot Alar Douches
Ward & Goldstone
Hotels
Kingsley Hotel
Hot Water Bottles
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Cheavin
Filter Co., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Warne, Wm., & Son, Ltd.
Hot Water Bottle
Stoppers

Stoppers Powe, T. Wilfrid

Rowe, T. Wilfrid

Hydrogen Peroxide
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co. Ltd.
Hydrokinone
Johnson & Sons (Mnfg. Cbts.) Hydrokinone Johnson & Sons (Mnfg. Cbts Hypophosphites May & Baker, Ltd Tyrer, T., & Co., Ltd. Infusions,

Concentrated

Concentrated
Arnfield, J.C., & Sons,
Ink, Dichroic
Bewley & Braper, Ltd.
Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Insect Powder
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co.
Iodes
Raimes, Clark & Co., Ltd.
Junket Powder
Armour & Co., Ltd.
Termour & Co., Ltd.

Armour & Co., Ltd.

Lamels, Gelatine
Savory & Moore, Ltd.

Lanclines

Hillcrest Oil Co., Ltd. Howard Lloyd & Co., Ltd. Lard Ewen, J., & Sons Lavender Oil Lavender U11
Allen, Stafford, & Sons, Ltd.
Guillevic, E., & Co.
Ransom, W., & Son. Ltd.
Lavender Water

Lavender Water
Bush, W. J., & Co., Ltd.
Gosnell, John, & Co., Ltd.
Vinoia Co., Ltd.
Leeches
Allen & Hanburys, Ltd.
Ligatures
Seabury & Johnson
Lime Juice and
Cordial
EvansSonesbert Webb I

Cordial
EvansSons Lescher & Webh, Ld
Idris & Co., Ltd.
Linseed, Crushed
Mumford, G. S., & Sons
Liverpool Lint Co.
Liverpool Lint Co.
Maw, S., Son & Sons, Ltd.
Robinson & Sons, Ltd.

Liquorice Juice
Boehm, F., Lta.
EvansSons Lescher & Wehh, Ld
Jackson, Ernest, & Co.
Solazzi

Solazzi

Lithia Salts

British Drug Houses, Ld., The
Howards & Sons, Ltd.,
Macfarlan, J. F., & Co.
May & Baker, Ltd. Loofabs

Hall Forster & Co., Ltd. Internl. Sponge Importers, Ld Solport Bros.

Lozenges

Swales, Thomas
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

Lysols
Aerators, Ltd. Aerators, Ltd.
Burt, Boulton & Haywood, Ld
EvansSons Leschera Webh, Ld
Lorimer, John
Standardised Disinfectants Zimmermann, C.& Co (Chemi-cals), Ltd.

CO.LG.
Zimmermann, C.& Co (Chemicals), Ltd.

Machinery,
Pharmacal
Allen & Hanourys, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.
Magnesia and
Preps.

Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon Ltd.
Washington Chemical Co., Ld.

Malt Extract and

Malt Extract and Preps.

Allen & Hanburys, Ltd.
Blackie, Robert British Drug Houses, Ld., The Burroughs Wellcome & Co. Calder, James, & Co., Ltd.
Corhyn, Stacey & Co., Ltd.
Davies, Sons & Co.

EvansSons Lescher & Co., Ltd.
Lorimer Marthaul, Ltd.
May, Roberts & Co., Ltd.
Pascall, James, Ltd.
Wyleys, Ltd.

Marking Ink
John Bond (Crystal Palace)

Measures,
Graduated

Bush, H. W. & Co., Ltd.

Meat Extracts

Armour & Co., Ltd.

Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.
Medical Coils

Ward & Goldstone
Mercurials Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Tyrer, T., & Co., Ltd.

Metal Clips
Griffin, John J., & Sons, Ltd. Methylarsenates Roques, Ferdinand

Methylated Spirit

Methylated Spiric Burrough J., Ltd. Preston's Liverpool Distillery Randall & Son, Ltd. (Co.,Ld. Eddell & Smith Thornley, Samuel, Ltd. Metric Weights Avery, W. & T., Ltd. Minoral Waters Camwal Ltd.

Mineral Waters
Camwal, Ltd.
Coulsworthy
Idris & Co., Ltd.
Ingram & Royle, Ltd.
Mixers and Sifters
Gardner, wm.&Sons(Glos.)Ld
Naphthalene

Gardner, Wm.&Sons(Glos), Ld
Naphthalene
But, Boulton & Haywood, Ld
Night Lights
Price's Patent Candle Oo, Ld.
Oils, Essential
Allen, Staflord, & Sons, Ltd.
Allannee Drug & Chemical Co
Bonke Roberts & Co., Ltd.
College College Co., Ltd.
College & Olcott Co.
Bush, W. Ld. & Co., Ltd.
Dodge & Olcott Co.
Evans-Sons-Lescher& Webb, Ld
Guillevic, E., & Co.
Lambert, Samil, & Co.
Lambert, Samil, & Co.
Lander Basence Co.
Lucders, George, & Co.
Magnus, Mabee&ReynardInc.
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.
Wright, Layman& Umney, Ld.
Zimmermann, C., & Co., Ltd.
Oils, Mineral,

Olis, Mineral, Fatty, &c. Allen, Stafford, & Sons, Ltd. Boehm, F., Ltd. Hertz & Co. Price's Patent Candle Co. Ld Stern Sonnehorn Oil Co., Ltd.

Ointments
Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.
Peat Products (Sphagnol) Ltd.
Raimes, Clark & Co., Ltd. Olive Oil Ferrer, J., & Co. Guillevic, E., & Co.

Olive Oil Soap Boshm F., Ltd. Opal Jars Toogood, Wm., Ltd.

Opium Preparations Oldfield, Pattioson & Co.

Optical Goods Darton, F., & Co. Maw, S., Son & Sons Nitsche & Gunther Optical Co., Ltd. Standard Optical Co.

Optical Tuition ritish Optical Institute ollege of Optics pectacle Makers Compa ny

Orange and Quinine Wine Hobson. Joseph, & Son Idris & Co., Ltd. Millar, A., & Co., Ltd. Robinson, B., & Co., Ltd.

Organic Solvents Hopkin & Williams, Ltd. Organo Thera-

peutic Preps.
Armour & Co., Ltd.
BritishOrganotherapy Co., Ld
Duncan, Flockhart & Co. Otto Rose (French) Guillevic. E., & Co

Guilleve, E., & Co.

Otto Rose (Synth.)

Rnsh. W. J., & Co., Ltd.

Guillevie, E., & Co.

Kerfoot, Thos., & Co.

Stevenson & Howell, Ltd

Stevenson, H. E., & Co.

Warrick Bros., Ltd.

Wright, Layman & Umney, Ld.

Oxygen Baths Wright & Co. Packed Goods

Packed Goods
Allen & Hanburys, Ltd.
Balss Bros. & Stevenson, Ltd.
Blackie, Robert
BritishDrug Houses, Ltd., The
Corhyn, Stacey & Co., Ltd.,
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co., Ltd.
Christy, Thos., & Co., Ltd.
Christy, Thos., & Co., Ltd.
Christy, Backhouse & Co., Ltd.
Codall, Backhouse & Co.
Lyal, Ltd.
Pales & Morgan
Lotthouse & Saltmer, Ltd.
May, Roberts & Co., Ltd.
Oldheld, Pattinson & Co
Potter & Clarke, Ltd.
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co., Ld.
Palatinoids

Palatinoids
Oppenheimer, Son & Co., Ltd.
Paper Containers
Cream Mugs, Ltd.

Paper

Handkerchiefs
Toinoco Handkerchief Co., Ld Paramnum

Paratinum
Liquidum
Browniog, Wm , & Oo.
Chesebrough Mnig. Co.
Silvertown Luhricants, Ltd.
Stern Sonneborn Oil Co., Ltd.
Pastilles
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Evans Sons, Lescher & Wehb
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Bros., Ltd.
Patent Agents
Barker, R. W.

Barker, R. W. Raworth, John E

Peppermint 0:11
Allen, Stafford, & Sons Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Peptone

Fairchild Bros. & Foster May & Baker, Ltd. May & Baker, Ltd.

Perfume Materials

Bonaventurs, F. & Oo.
Bush, W. T. & Co., Ltd.
Kerloot, T., & Co.
Lucders, George, & Co.
Lucders, George, & Co.
Aser, M., & Co., Sucors.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ld
Zimmermann. C., & Co. Ltd.

Zimmermann. C., & Co. Ltd.

Perfumes
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ld., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Evansyons Lescher& Wehh, Ld
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Lorimer, John Lescol Perfumery Co.
Lorimer, John
Potter & Clarke, Ltd.
Price's Co., Ltd.
Quelch, H. C., & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ld.
Fozana Perfumery Co.
Vinolia Co., Ltd.
West, T., & Son
Perfles
Tye, John, & Son
Person

Pessaries (Soluble) Burge, Warren & Ridgley, Ld. Rendell, W. J.

Petroleum Jelly
Chesebrongh Manig. Co.
Kidston. W. M., & Co.
Meade-King, Rohinson & Co.
Stern Sonneborn Oil Co., Ltd.
Wiener, R. O., & Co.
Phenacetin
Bruce, James & Co.

Wiener, R., O., & Co.

Phenacetin
Bruce, James, & Co.
Greeff, R. W., & Co.

Monsanto Chemical Works
Read, Holliday & Sons, Ltd.
Retimeyer & Ce.

Phosphorus and
Preps.

May & Baker, Lid.
Photo. Chemicals
Greeff, R. W., & Co.
Johnson & Sons (Manufacts.
Chemists), Ltd.
Lane-Hall, R., & Co.
Retimeyer & Co.

Photo. Goods
Ayrton, Saunders & Co., Ltd.
Burroughs Wellcome & Co.
Butcher, W., & Sons, Ltd.
Evans Sons Lescher & Web, Ltd.
Lennon, Ltd.
Lay, Robert & Co., Ltd.
May, Robert & Co., Ltd.
May, Robert & Co., Ltd.
Rajar, Ltd.
Saugers

Wyleys, Ltd.
Photo. Postcards

Photo. Posicards

Photo. Postcards Rajar, Ltd. Makers Pill Makers Cox, A. H., & Oo., Ltd. Davies, Sons & Co. Heward Livd & Co., Ltd. McKesson & Rohhins Standard, Tahlet & Pill Co., Ld. Standard, Tahlet & Pill Co., Ld.

Standard, Tanlett & Pil Co., Ld.
Wand Manufacturing Co.
Pilocarpine,
Roques, Ferdinand
Plasters'
Dalmas, A. de St., & Co.
Galen Manufeg, Co., Ltd.
Seabury & Johnson
Flate Powder
Griffiths, T.D., & Co.
Pleated Paper
Darter, Wilkinson & Co.
Pocket Lamps'
Electric
Ward & Goldstone
Polishes (Various)
Bradley & Bourdas
Holiday & Co.
Robinson & Sons, Ltd.
Powder Paper
Paper Poudre, Ltd.
Powder Paper
Paper Poudre, Ltd.
Townsend, J., & Sons
Walde, T., & Sons
Wilkinson, James F.
Proprietary
Articles
Angier Chemical Co., Ltd.

Waide, T., & Sons's

Wilkinson, James F.

Proprietary

Articles

Angier Chemical Co., Ltd.
Angier Chemical Co., Ltd.
Angier Chemical Co., Ltd.
Ashton & Parsons, Ltd.
Beccham, T.,
Berhe & Chinpetta
Beecham, T.,
Berhe & Chinpetta
Belidohn, Hills & Lucas, Ltd.
Bishop, Alfred, Ltd.
Bishop, Alfred, Ltd.
Bishop, Alfred, Ltd.
Bishop, Alfred, Ltd.
Corby, A. Co.
Burgess, E.
Castle Laboratory
Christy, T., & Co.
Burgess, E.
Collman, J. & J., Ltd.
Corbyn, Stacey & Co., Ltd.
Orbyn, Stacey & Co., Ltd.
Orbyn, Stacey & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Delons, Ltd.
Daisy, Ltd.
Daisy, Ltd.
Daisy, Ltd.
Daisy, Ltd.
Daisy, Ltd.
Delons, Ltd.
Delons, Ltd.
Corbyn, Stacey & Co., Ltd.
Forenings, Alfred
Ferris & Co., Ltd.
Goodall, Backhouse & Co.
Fellows' Med. Might Co.
Fellows' Med.

Primer, J. Resinol Chemical Co.

Resinol Chemical Co.
Sangers
Scott & Rowne, Ltd.
Scott & Turner, Ltd.
Squire & Sons, Ltd. Pill Co.'Ld.
Squire & Sons, Ltd.
Polkalon Ltd.
Tokahon Ltd.
Tokahon Ltd.
Tokahon Ltd.
Wartek Bros. Ltd.
White, A. J., Ltd.
Willeox, Jozean & Co.
Woodward, W. Ltd
Wright & Co.
Wright, Layman & Umney, Ld.

Puffs Schutze, F., & Co., Ltd. Scipert Bros. Pyrogalie Acid Greek, R. W., & Oc.

Greefi, E. W., & Co.
Quinine and Saits
Allance Drug & Chem. Co.
Bandoang Quinine Factory
Corbys Stacey & Co., Ltd.
Greefi, E. W. & Co.
Hewards & Sons, Ltd
Ectimeyer & Co.

144

Eszors

Hovenden, R., & Sons, Ltd.

Koland, W. P.

Maw, S., Son & Sons

Reagents

Hopkin & Williams, Ltd. Rennet Powder

Resins, Resincids
Augu, Stanora, & Sons, Lta.
Madiarian, J. F. & Co.
Ramson, W. & Son, Ltd.
Smith. T. & H., Ltd.
Respirators
Simmer & Co.

Rubber Goods
Altrinoham Rubber Co.
Berton, Arthur, Ltd.
Hurge, Waren & kidgley, Ltd.
Haywoo, J. H., Ltd.
Haywoo, J. H., Ltd.
Haywoo, J. H., Son
Maw. 8., Son & Sons
Tompkins, J. Ltd.
Warse, W., & Co., Ltd.

Rubber Sponges Markt & Co. (London), Ltd. Rubber Stamps Russian Drugs, &c.

Russian Drugs, &c.c.
Wladyelaw, Hoffmanin & Co.
Saccharin
Saccharin
Salicylie Acid and
Salicylates
Bush, W. J. & Co., Ltd.
Santonine
Goldberg, I. L. Goldberg, l. L.
Saponin
Field C. W., Ltu.

Field C. W., Ltu.

Scientific

Apparatus

Parken, Son & Co., Ltd.

Pillischer, J.

Raynolds & Branson, Ltd. Scales and Weights Avery, W. & T., Ltd.

Sea Salt
Tidman & Son, Ltd.
, Seed Dressing
Hawker, Arthur E.
Tominson & Hayward, Ltd.
Seeds
Retter & Clarke Ltd. Potter & Clarke, Ltd.

Scrums and
Antitoxins
Allen & Hanburys, Ltd.
Burroughawelloome&Co.,Ld.
Christy, T., & Ce.
Evans&Onselesoher&Webb.Ld
Parke, Davis & Co.
Willeox, Josan & Co
Shampoo Powders
Standard Tablet&Pill Co.,Ld.
Shares
McAdam & Tuckniss
Burt, Boulton & HaywoodLd.
Hawker, Arthur E.
Standardised Disinfectants
Co., Ltd.
Tominison & Hayward, Ltd.
Shop Fittings

Tominson & Hayward, Ltd.

Shop Fittings
Ayrton-Graham, Ltd.
Cook, George
EvansSonsLescher&Webb, Ld.
Grant, D.
Haskins, S., & Bros., Ltd.
Josephs, Philip, & Sons, Ltd.
Maw. S., Son & Sons
Mills, H.
Parnall & Sons
Ruddock & Co.
Sangers
Shoulder Straps
Wood, Vincent

Silverware Goods

Scott, Adolph
Soap Perfumes
Stevenson & Howell, Ltd. Soap Perrumes
Stevenson & Howell, Ltd.

Soaps, Toilet, &c.

Alen & Hanburys, Ltd.

Alen & Hanburys, Ltd.

Bell John, Hills Lucas, Ld.

Bell John, Hills Lucas, Ld.

Bell John, Hills Lucas, Ld.

Cook, E. & Co., Ltd.

Cook, E. & Co., Ltd.

Cook, E. & Co., Ltd.

Examio Co., Ltd.

Examio Co., Ltd.

Examio Co., Ltd.

Exen, James, & Sons

Faulding, F. H., & Co.

Field, J. C. & J., Ltd.

Fullord, C. E., Ltd.

Gosnell, John, & Co., Ltd.

Harrison, G. W.

Hovenden, R., & Sons, Ltd.

Lascol Pertumery Co.

Pears, A. & F., Ltd.

Price's Patent Candle Co., Ld.

Resinol Chemical Co.

Wright, Layman & Umney, Ld

Sodium

Bicarbonate

Ricarbonate

Response Mond & Co.

Bicarbonate Brunner, Mond & Co., Ltd Howards & Sons, Ltd.

Sodium
Salicylate
Bead, Holliday & Sons, Ltd.
Soothers
Newhork Newbery, F., & Sone, L Schutze, F., & Co., Ltd

Sparteine

Roques, Ferdinand
Spectacles
Darton, F., & Co.
Maw, S., Son & Sens
Nitsohe & Gunther Optical
Co., Ltd.

Spermaceti
Price's Patent Candle Co.,Ld.
Sphygmometers
Hicks, James J.

Hicks, James J.

Spices (Ground)
Allen, Stafford, & Sons. Ltd.
Goodall, Back house & Co.

Spirit of Wine
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Dietillery
Co., Ltd.

Sponges

Sponges
Interni.SpongeImporters.Ld.
Newbery, F., & Sons, Ltd.
Sprays
Benton & Stone, Ltd.
Burge, Warren& Ridgley, Ltd.
Chriety, Thos, & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co. Sangers Toogood, Wm., Ltd.

Sprinkler Corks Spruce Beer
Hobson, Joseph, & Son
Starch
Mumford, G. S., & Sons
Stills

Stills
Bennett. Sons & Shears, Ltd.
Dorc, John, & Co.
Stokes, F. J., Machine Co.
Stoppers
Rowe, T. Wilfrid
Stipendum Stopper Co.

Rowe, T. Wilfrid
Stipendum Stopper Co.

Surgical Appliances & Dressings
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Berton, Arthur, Ltd.
Berton, Burbidges & Co.
Burroughs Wellcome & Co.
Burroughs Wellcome & Co.
Bursh, Henry W., & Co., Ltd.
Carnegie Bros.
Christy, Thoss, & Co.
Cuxson, Gerrard & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Manfg, Co., Ltd.
Gimber, W., & Son
Gray & Selby
Haynes, G., & Co.
Liverpool Lint. Co.
Mason Bros. & Chapma
May, Roberts & Co.
Mason Bros. & Chapma
May, Roberts & Co.
Ltd.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barclay, Ltd.
Thermogene Co., Ltd.

Van Horn & Sawtell Vernon & Co., Ltd. Warne, W., & Co., Ltd. Wood, Vincent Woolley, J. Sons & Co., Ltd. Suspensory

Suspensory
Bandages
Bailey, W. H. & Sons
Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Williams, E., and Co.
Syringes
Bresillon, M., & Co.
Bush, H. W., & Co., Ltd.
Gray & Selby
Syring

Gray & Selby

Syrups, Medicinal

Arnfield, J. C., & Co., Ltd.

Fellows' Med. Mnfg. Co.

Table Waters

Burrow, W. & J.

Tablet Machinery

Allen & Haphyres, Ltd.

Allen & Hanburys, Ltd. Bennett, Sons & Shears, Ltd. Thompeon & Capper, Ltd. Wilkinson, S. W., & Co.

Tablets, Compressed
Allen & Hanburys, Ltd. British Drug Houses, Ld., The Brook, Parker & Co., Ltd. Burgoyne, Burbidges & Co. Cox, A. H., & Co., Ltd. Davies, Sons & Co. Duncan, Flockhart & Co. EvansSons Lescher & Webb, Ld Guest, Thos., & Co. Howards & Sons, Ltd. Jackson, Ernest, & Co. Parke, Davis & Co. Scheller, Emil, & Co. Shirley Bros., Ltd. Thompson & Capper, Ltd. Wand Manig. Co. Wiggles worth & Co.

"Tablotd" Pro-Tablets, Com-

"Tabloid" Pro-"Tabloid" Products
Burroughs Wellcome & Co.
Talc, Powdered
Levermore, Aug., & Co.
Tea

Christy, Thos., & Co. Teats Ingram, J. G., & Son Terpeneless

Essences Zimmermann, C., & Co., Ltd. Theobromin Scheller, Emil, & Co. Smith, T. & H., Ltd.

Tin Box Makers Goodall, Backhouse & Co. LiverpoolTinCanisterCo.,Ltd. Shirley Broe., Ltd.

Tinctures in Bond Allen, Stafford, & Sons, Ltd. Macfarlan, J. F., & Co. Ransom, W., & Son, Ltd.

Ransom, W., & Son, Ltd.
Tinfoil
Venesta, Ltd.
Tobacco
Singleton & Cole, Ltd.
Toilet Paper
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons
Toilet Toilet

Preparations
Dearborn, Ltd.
Hall Forster & Co., Ltd.
Little, D. J., Co.
Papier Poudré, Ltd.
Rosnarine Mnig. Co.
Stevenson & Howell, Ltd.
Tokalon, Ltd. Trade Marks

Trade Marks
Agents
Barker, R. W.
Ford, Shapland & Co.
Raworth, John E.
Trusses
Bush, H. W., & Co., Ltd.
Davis, J. M., & Sons, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Wood, Vincent
Woodley, J., Sons & Co., Ltd.
Trubes, Glass

Tubes, Glass liams, E., & Co. Turned Wood Willia Boxes
Estes, E. B., & Sons
Turpentine
Lambert, Saml., & Co.

Urinals, Earthenware necke & Co. Vacuum Flasks Aerators, Ltd. Landau & Co. Quelch, H C., & Co.

Vacuum Pans Bennett, Sons & Shears, Ltd. Valuers

Bennett, Suis & Shears, Loc.

Valuers

Baker, P. C.

Berdoe & Fish

Brett & Co.

Tominson, T., & Son

Vanilla Beans

Magnus Mabee& Reynard Inc.

Vanillin

Bush, W. J. & Co., Ltd.

Greeff, R. W., & Co.

Verona Chemical Co.

Zimmermann, C., & Co., L'd.

Vaseline

Chesebrough Manfg, Co.

Vermin-Killers Vermin-Killers
Bowley, S., & Son
Christy, T., & Co.
Cupal, Ltd.
d
Danysz Virus, Ltd.
EvansSons-Lescher&Webb, Ld
Farmer, F., & Co.
Harley, Thomas
Hawker, Arthur E.
Milner's Chemical Co.
Vet. Instruments

Vet. Instroments
Mason Broa & Chapman
Maw. S., Son & Sons
Vet. Remedies.
Cataline Co. Christy. Thos., & Co.
Christy. Thos., & Co.
Day & Sons (Crewe)
Dennis, John W.
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Senler, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleye, Ltd.
Vinegar
Grimble & Co.

Grimble & Co Vulcanite Goods Vulcanising Co., Lt Kemp's Vulcanising Co., Lt Water Beds, &c. Water Bous, td.
Ware, Wm., & Co., Ltd.
Water Glass
Goodall, Backhouse & Co.
Tomlinson & Hayward, Ltd.
Water Still

Brown & Sons Stokes, F. J., Machine & Co. Waters, Conces-

Waters, Concou-trated
Robinson, B., & Co., Ltd.

Wates
Boehm F., Ltd.
Price's Pat. Candle Co
Schliemann's Oil & Ceresine
Co., Ltd.
Wiener R. C., & Co.

Weed Killers
Lawkor Actions F

Hawker, Arthur E.
Tomlinson & Hayward, Ltd.
Window Fittings
Ayrton-Graham, Ltd.
Window Tickets
Merten, F., & Co.

Merten, F., & Co.

Wines, Medicated

Burrough, J., Ltd.

Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Hobson, Joseph, & Scn
Idris & Co., Ltd.

Robinson, B., & Co., Ltd.
Smith, Sephen, & Co., Ltd.

Wrapping

Wrapping

Wrapping
Machinery
Forgrove Machinery Uo., Ltd
Wrist Straps
Solport Bros
Zinc Oxide
Hubbuck, T., & Son Ltd.
Stevenson, H. E., & Ce.

The

in's Food Method of

The use of Mellin's Food as a modifier of fresh milk is based upon an experience of fifty years, and is consistent with the accumulated evidence of the study of nutrition in infancy.

Milk Modification.

Success in Infant Feeding attends the use of MELLIN'S FOOD for hand-reared infants from birth.

A Doctor of wide experience says:-



"I order Mellin's Food for my patients, and am very pleased



Attractive Showcards and Advertising Matter sent carriage paid on request. MELLIN'S FOOD, LTD., PECKHAM, LONDON, S.E.

EVANS' JOURNAL

MEDICINE. PHARMACY.

THERAPY. BACTERIOLOGY.

The April Issue contains the following articles:

- 1. The Technique of the Simpler Methods of Bacteriological Diagnosis (continued).
- 2. The Relation of the Individual Organs to One Another (continued).
- 3. The Pancreatic Function and its Derangements (continued).
- 4. Carbohydrates and their Derivatives in Urines.
- 5. Colloids in Medicine.
- 6. Serum Therapy in Cancer Cases.
- 7. Prophylactic of Protective Vaccine Therapy.

A Copy will be sent Gratis to any Chemist on application.

Evans Sons Lescher & Webb, Ltd.

56 Hanover Street, LIVERPOOL.

60 Bartholomew Close, LONDON, E.C.

Cable Address:

"CELAITCH, NEW YORK."

AS. L. HUISKI

5 PLATT STREET, NEW YORK CITY,

Commission Merchant. Broker and

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World. Weekly Market Reports Mailed on request of Wholesale Buyers only.

FOR STATUS INQUIRIES, COLLECTION OF ACCOUNTS, AND INVESTIGATIONS.

Join The Association of Manufacturing Chemists, Ltd.

which is THE MEDIUM for the TRADE. PROSPECTUS ON APPLICATION.

PARKIN S. BOOTH,
Accountant to the Association of Manufacturing Chemists, Ltd, (for the Protection of the Drug, Chemical and Allied Trades),

32 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.

Telephone: City 6942,
Or 35, 36 & 37 EXCHANGE CHAMBERS,
— 2 BIXTETH STREET, LIVERPOOL.
— Telephone: Central 8965 (4 lines).

HOLIDAY & CO.

City Mills, Durham.

Sole Manufacturers of the following celebrated Specialities: "VELKOLINE." The Snow-white Whiting, 3d., 2d., and 1d. packets.

"Daxo" Adhesive Paste Powder, 3d., 2d., and 1d. Holiday's Floor Polish, 3d. and 6d. tins. [packets. Holiday's Furniture Paste and Cream, 1d., 3d., and 6d. Holiday's Boot Polish, Black & Brown, 1d. & 2d. tins. Holiday's Glossy Black, 3d. and 6d. tins.

Holiday's Varnish Stain, 3d., 6d. and 1/- bottles.

SAMPLES FREE. All Goods Carriage Paid. All Packages Free.

SILICA

is a base or filling for everything—Polishes, Sand-Soaps, Glass Paper, Artificial Stones, &c. It is used as a drier or finisher for sticky materials (Bitumen, Rubber, &c.)

Prices: 5/- to £5 per ton, Thames Pits.

LINCOLN MINERAL CO., LTD. Point Pleasant, Wandsworth, S.W.

F. M. RUDD.

Bronson,

MICHIGAN. U.S.A.

GENUINE AMERICAN PEPPERMINT OIL

" Columbia " Natural "Diamond White " Re-distilled.

Finest qualities for Druggists, Distillers and Confectioners.

Sole Consignces in United Kingdom-R. W. GREEFF & CO. Thames House, Queen St. Place, LONDON, E.C.

PEDICULUS and PHTHIRIUS.

A Preventive and Remedy for Lice and Fleas.

The Remedy is that referred to in the papers for the extermination of these pests.

NON-POISONOUS, NON-INFLAMMABLE, & MIXES WITH WATER.

For supplies apply to local Chemists and Stores, or to-Messrs. Stickland & Co., 23 Cromwell Place, South Kensington, S.W.,

Or Wholesale from Manufacturers

S. BOWLEY & SON, Wellington Works, Battersea Bridge, S.W.

PRICES—1 lb. Tins, 1/- each, post free, 1/4 each.
7 lb. ,, 6/- ,, post free, 7/- ,,

Please Try Our DISPENSING BOTTLES & PHIALS.

We send six gross assorted or otherwise, carriage paid to certain stations, particulars on application. Smaller quantities not

carriage paid.

REDUCED PRICES.

Clear Blue Tinted—Good Quality.
3 & 4 6 & 8 12 16 oz. Plain or graduated, round edges.

8/6 9/6 14/- 18/- per gross.

Clear Blue Tinted. Best Quality. QUININE.

3 & 4 & 6 & 8 & 12 & 16 oz. Plain or graduated, round edges.

10/6 11/6 16/- 20/- per gross.

CHEAP BOTTLES for dispensing.

3 & 4 6 8 oz. Plain or graduated, round edges.

8/- 9/- per gross.

 WHITE PHIALS—GOOD QUALITY.

 1
 1½
 2 oz. Plain or teaspoons

 4/ 4/6
 4/9
 5/3 per gross.

I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention. Established 100 Years.



ALL-BRITISH

EAU DE COLOGNE

We have pleasure in reminding you of this excellent production.



ALL-BRITISH EAU DE COLOGNE

IN

ENGLAND

Please note the following prices:

is DISTILLED

DOUBLE	DISTIL	LED.	SINGLE	DISTIL	LED
Size		Price	Size		Price
l oz		5/2	l oz		4/6
2 oz		8/-	2 oz		6/9
			4 oz		12/3
Half-pint	Wickers	28/-	Half-pint		22/6
One do.	do.	50/-	One do.	do.	40/-
One quart	do.	90/-	One quart	do.	75/-

CORBYN'S NATURAL PERFUMES

packed in elegant presentation cases, attractive bottles or bulk.

F. SCHUTZE & CO., LTD., CALEDONIAN MARKET, LONDON, N.

Pure Rectified Re-distilled Spirit

FINEST QUALITY S.V.R.

Quotations and Samples on application to

James Calder & Co. Ltd.
Distillers, BO'NESS, N.B.

Telegraphic Address: "Distillers Bo'ness."

Telephone No.:

METHYLATED SPIRIT

Makers of Industrial and Mineralised Spirit

QUOTATIONS & SAMPLES ON APPLICATION TO

RIDDELL & SMITH, Methylators, Bo'ness, N.B.

OVER 100% PROFIT! ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Mir	imum ret	ail.	Minimum	wholesale.
1/-		1/-		7/6	
1/6	•••	1/6	•••	9/-	per doz.
2/6	•••	2/3	• • •	15/-	discount
3/6		3/3		21/-	,

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz, do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors-

C. R. HARKER, STAGG & MORGAN,
DEVON WHARF,

Emmott Street, Mile End, London, E.

Men have now fully realised that

Anzora Cream

is the only preparation that effectually and efficiently

Masters the Hair

without the aid of oil or grease.

We Advertise it—
Do you Stock?
THERE'S GOOD PROFIT FOR YOU.

TRADE TERMS.

11/6 per Dozen. Retailed at 18/-19/6 ,, ,, 30/-

ORDER THROUGH ANY WHOLESALER.

ANZORA PERFUMERY CO.

32-34 Willesden Lane, LONDON, N.W.

ELEVEN CENT LONDON

S. MAW. SON & SONS

71012, ALDERSGATE ST.
LONDON, E.C.

10010

CITY 7
PRIVATE
BRANCH
EXCHANCE

NUMBER 182

APRIL 10, 1915

× another interesting number >

Prevent Septic Infection-

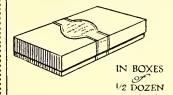
Make our message your message to all soldiers, doctors, motorists, engineers, gardeners, workmen, &c.

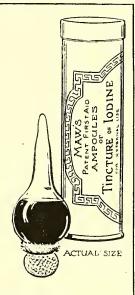
MAW'S PATENT FIRST AID TINCTURE OF IODINE AMPOULES

form a new and indispensable addition to home defence against infection and disease.

Each ampoule is put up in strong metal tube, attractively printed, and contains approximately 30 minims of iodine tincture—enough to sterilise a square foot of skin surface.

The ampoule is ready for use in a moment.





The Press has enlightened the public in the uses of iodine, many medical men are in favour of icdine prophylaxis.

Maw's Patent first-aid tincture of iodine ampoules make a new and permanent line for Pharmacists. In boxes of ½ dozen, with demonstration showcard,

2/6 dozen Ampoules.

FOR OPTICIANS

Dusty and glaring roads will soon make additional trouble for the motorist. At an opportune time we have produced a new goggle

bearing very distinct features. It is composed of a celluloid frame of tortoiseshell colouring, and fitted with amber lenses. Very neat appearance.

4/3 EACH.



AN EXCLUSIVE DENTIFRICE FOR EVERY PHARMACIST

Why not stock a high-class Tooth Powder bearing your own title and name and address?

OUR "Own-name" Tooth Powder is BEYOND REPROACH.

It is prepared to give satisfaction and to make regular customers for you. Put up

IN BEST STYLE

as follows:—1/- size, Royal red, cream, or pink, domed top, enamelled tins, with coloured band, 6/- dozen. 6d. size, Royal red, cream, pink, or aluminium

tinsasabove, with coloured band, 3/9 dozen. Quantities not less than 1 gross; in ½ gross deliveries, assortedsizes if desired, Exclusive design for every Pharmacist.



LITTLE TALES

"In this vile, dirty planet of ours—which o' my conscience I take to be made up of the shreds and clippings of the rest of the world, . . . I affurn it over again to be one of the vilest worlds that ever was made."

Tristram Shandy, Gentleman, who expressed the above views, would have made a poor business man had he his counterpart in real life. Pessimism has no place in the Pharmacy.

Good business opportunities exist for those who seek them.
"Maw's Page" is always full of ideas and better-trade-lines. Our Representatives have new productions to show at every visit. Maw Ouality spells Prosperity.

A powerful antiseptic and deodorant.

"PETAL DUST" REGD.

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "Petal Dust" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

Retails in 3d. and 6d. packets

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS-

THE ROSMARINE MANUFACTURING COMPANY, STAMFORD STREET, LONDON, S.E.

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

EAU DE COLOGNE

Manufactured in Great Britain.

LESCOL BRAND No. 58.

FINEST VALUE IN COLOGNES IN THE MARKET.

Per doz.
1 oz. ... 3/3
2 oz. ... 5/6
4 oz. ... 9/4
IN

WICKERED.

Per doz.

2 07. ... 7/-

Double Distitled

Can de Cologne
Lescol Brand.

Manufactured
un Great Britain

IN WICKERED.

Per doz. 4 oz. ... 12/6 ½ pint ... 17/1 ,, ... 29/2 Quart ... 52/9

Very acceptable and necessary Presents for the Sick.

THE LESCOL PERFUMERY CO., Tel. No.—Hop 810.
Telegrams—
"Vanilin-Camber, London."
LOMOND GROVE, CAMBERWELL, LONDON, S.E.

FEATHEREDGE .

RUBBER SPONGES

are

thoroughly

sanitary

and do not

harden.





PROFITABLE TO HANDLE.



4

To be

obtained of

all

Druggists'

Sundries-

men.





Markt & Co., London,

American Merchants,

95-100 CLERKENWELL RD., LONDON, E.C.

A. Boake Roberts & Co., Ltd.. STRATFORD, LONDON, E.

Distillers and direct Importers of all important

Essential Oils.

Manufacturers and Distillers of

ESSENCES,

SYNTHETIC PERFUMES, &c.

including

Anethol, Citral,
Citronellol, Eugenol,
Geraniol, Geranylacetate,
&c.

Terpeneless Oil of Lemon, Sesquiterpeneless Oil of Lemon.

Write for samples and quotations.

A.Boake Roberts & Co., Ltd..

HIGH CLASS AND LITHOGRAPHED FOLDING CARTONS

Exclusive and Sales-promoting suggestions will be gladly submitted on receipt of particulars of the article to be marketed.

Advertising Dummies and Cut-outs

for Counter and Shop Window display.



Postal Boxes

Specially constructed for the safe transmission of bottles and fragile articles through the post.

Special Quotations and Samples of Cardboard Boxes of any description on receipt of particulars.

GLOBE BOX CO.,

Makers of the famous "Dreadnought" Collapsible Packing Cases,

HYDE, CHESHIRE.

Telephone No.: 115 HYDE (2 lines).

AMERICAN MAILING CASES



(ROUND POSTAL BOXES)

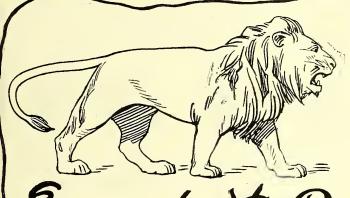
METAL BOTTOMS AND SCREW CAPS. Lined Waterproof for Safety in Transit.

> MORE SECURE AND MUCH LIGHTER THAN WOOD.

Approved by Postmaster-General (April 10, 1912) for transmission of Liquids, etc., by Inland and Foreign Mails.

We also supply the Bottles to fit the Cases.

Price List and Sample from the Sole Importers, Hertz & Co., 9 Mincing Lane, London, E.C.



ALL BRITISH

and therefore to be preferred by Chemist and Customer alike.

Eau de & Bologne

John Loremer, 119 Finsbury Pavement, London E. C. No patriot will continue to purchase perfume with a german reputation Chemists can push this British Perfume with every confidence Ladies prefer it especially fordistribution in Military Hospitals and sick rooms.

"LAROLA"

(Registered)

Is the Skin Tonic for 1915.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S New Showcard.—One of the prettier, lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word 'Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so hright a picture that no pharmacy will he complete without it. Copies can he obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumher and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can he had hy any chemist who will give it a good place in his pharmacy.

M., BEETHAM & SON, Cheltenham.

KEEP FULL STOCKS ALL THROUGH THE YEAR

OF THE

New Complexion Cream

"VELOIN"

This cream is advertised in a novel manner, and very extensively. The public will want it, and it is bad business to send a customer to a rival shop for anything.

The profit on the retail sale is worth having—and you keep your customer.

Wholesale price, per dozen jars, 24/-Retail price - per jar, 2/6

SOLE MANUFACTURERS-

The D. J. LITTLE CO., 37/38 Hatton Garden, LONDON, E.C.

Toogood's Packed Toilet Preparations in Collapsible Tubes.













2452

No. 2629. Toilet Lanoline 3 sizes 2/9, 3/9 and 5/6 per doz. 2667. **Boracic Ointment** 3/- and 4/6 ... 2508. Cold Cream 3/6 Vanishing Cream 2509. 3/6 2542. Shaving Cream 4/6 2452. Solid Brilliantine

Customer's name free on 3 dozen of any one kind, and showcard supplied.

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.



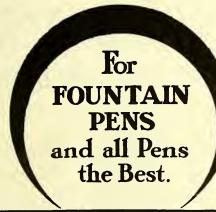


CELTIC CROSS, DISINFECTANT FLUID.

CELTOLENE, Antiseptic Liquid Soap. CELTOL, Antiseptic, Lysol Substitute. CELTYL, Disinfectant Fluid, 18-20 Co-eff.

> Sheep Dip, Crude Carbolic Acid, Soap Powder, Domestic Liquid Soap and all other Coal Tar Products. All British made by the CELTIC CHEMICAL CO., GLASGOW.

Sole Consignees: AUGUST REICHWALD, Ltd. (Established 1572. Entirely British owned and controlled), (3) Finsbury Pavement House, LONDON, E.C.



Dichroic Ink

Makes Writing Easy

Proprietors:

Bewley & Draper, Itd., Dublin.

GOOD! IT'S MASON'S The Drink for the Masses



Health Salt Salines

Liver Salt

Blood Salt

Sulph. & Sarsap. Salt

Lemonade

Crystals, &c.

NEWBALL & MASON

NOTTINGHAM

CARTONS FOR SPRING SPECIALITIES



WE HAVE A LARGE VARIETY OF CARTONS IN STOCK, ONE OF WHICH WE ILLUSTRATE ABOVE. THE WORKMANSHIP IS GOOD THROUGHOUT, AND WE CAN RECOMMEND THEM TO ALL WHO WISH TO SEE THEIR GOODS WELL PACKED.

WE SHALL BE GLAD TO SEND SAMPLES OF ANY OF THE FOLLOWING CARTONS FOR

BLOOD MIXTURE
CAMOMILE
COUGH BALSAM
EMBROCATION
FRUIT SALINE
HAIR RESTORER
HYPO
LEMONADE CRYSTALS
NEURALGIA MIXTURE
SENNA
SEIDLITZ POWDERS
SYRUP OF FIGS
ETC. ETC.

ROBINSON & SONS, LTD.

BOX MAKERS TO THE CHEMIST TRADE

CHESTERFIELD & LONDON.

(21)

Lofthouse & Saltmer, Ltd.

- Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

				Prote Retail		Dozen Net.
*LOSALL'S	SALT	(well a	dvertise	d), tins	6d.	3 6
*	**	,,	1,	.,	1/-	7/-

" bottles in cartons 1/610/6 * Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin 1/soap, especially suitable for use in Eczema 1/-

8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

PASCALL'S

GOLDEN

MALTEX

Contains 25% Pure Malt Extract

of especial food value for Children.

4 ozs. 31d.

6d. & 1/-

BOTTLES.

- ¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.
- ¶ Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

CHEMISTS SHOULD STOCK

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

ABDINE" is the most popular Health Drink. Superior to all Mineral
Waters. Sold in Id. Packets, and Boxes of 13 Packets at 1/Order through your Wholesale Drug House.

D. M'GLASHAN, M.P.S., 12 West End Place, EDINBURGH,
Wholesale Prices on Application.

The British Substitute Evian. Contrexéville, Vittel and

S.T. EVANS

Vichy. Rheumatism, and Dyspepsia COULSWORTHY, KENTISBURYFORD, BARNSTAPLE

TURNER'S HANDY HANDCARTS.

BARCAINS FOR KEEN BUYERS. HUNDREDS ALREADY SOLD.

This Handcart having two Bodies has twice the capacity of any ORDINALY Handcart, and does away with the necessity of piling fragile goods and thereby getting damaged. Size—Top, 27 by 20 by 6 in. Bottom, 32 by 20 by 6 in.

List Price £3 198. 6d.

PARCEL HANDCART.—Extra Strong, to carry two cwt., acknowledged by users to be the best GENERAL USE HANDCART on the market.



We have made and supplied this Handcart to Tradesmen in every part of the British Isles, Body—Size, 34 by 21 by 12 in. 28" Wheels, best quality wired-on Tyres. List Price £3 18s. 6d.

Either Handcart now offered for £2 19s. 6d. by easy payments. Lettered and packed free. 2s. in the £ discount for Cash.
Our motto—Satisfaction, or eash refunded in full.
From the Sole Maker direct,
J. TURNER, Coachbuilder, LICHFIELD.

"Stretton"

The English

Natural

Table Water

The Purest in the World.

Copy of Analysis sent on application.

The Stretton Hills Mineral Water Co. Church Stretton. Salop.

London Depot: RICHARD DAVIS, 20 Maddox Street, W. Manchester : JEWSBURY & BROWN, Ardwick Green.

GEORGE LUEDERS & CO.

NEW YORK, 218, 220 & 211 Pearl Street. CHICAGO, 301 W, Randolph Street. SAN FRANCISCO, CAL.

MONTREAL, 396 St. Paul Street.

MEXICO CITY, Av. Independencia 10.

Letters address: P.O.B. 1498 NEW YORK.

Cable address: "GUALACUM."

Import and Export:

Essential Oils, Olive Oil, Vanilla Beans, Natural and Synthetic Perfumers' Materials.



Prompt Sales Quick Turnover Increasing Demand Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis," because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENSES.—It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a license.

COLEMAN & CO, Ltd., Wincarnis Works, NORWICH.





"Indispensable."

THE EXTRA PHARMACOPŒIA JUST By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915).

REVISED AND ENLARGED.

PRICE 21s. net; postage 4d., abroad 6d. Separately, Vol. I., 14s. net; pestage 4d. Vol. II. 7s. net; postage 3d.

- "It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not 'just as good."—Chemist and Druggist.
- "The two volumes together form an invaluable compendium of information."
 "A work of great utility."—The Lancet.

 [British M.
- [British Medical Journal. The Extra Pharmacopæia maintains its high standard and more. All interest welcome this new edition of an indispensable hook."—Pharmaceutical Journal.

136 GOWER STREET, LONDON, W.C. ONDON: LEWIS, MARTINDALE, IO NEW CAVENDISH STREET, LONDON, W. Also of W.

THE OLDEST ESTABLISHED PRIVATE SCHOOL OF PHARMACY in ENGLAND. Telephone: 1728 Brixton. TEACHERS: -G. S. V. WILLS, Ph.C., P. H. WOODNOTH, M.P.S. (Principals), and Miss M. YOUNG (Certificated Teacher).

COURSE FOR THE MINOR EXAMINATION COMMENCED ON APRIL 7. THE

Evening Classes for the Minor WEDNESDAYS & THURSDAYS. 2 till 9,

Fee, 6 Months, £1 11s. 6d.



Evening Classes for the Apothecaries' WEDNESDAYS & THURSDAYS, 6 till 9.

Fee, 6 Months, £1 11s. 6d.

DISPENSERS.

Ladies wishing to pass the Apothecaries' Hall and become Qualified Dispensers, or Nurses wishing to learn Dispensing, will find every facility in this College. Full particulars will be found in prospectus, which is sent post free on application.

All books and apparatus are provided free of cost. FEES: 3 months £5 5s.; 6 months, £8 8s.; Until Qualified, £10 10s.

JANUARY PASS LIST, 1915.—TEN Lady Pupils presented themselves for the Apothecaries' Examination from this College. The following EIGHT passed: Miss I. Ackroyd, Miss I. Clother, Miss M. Knight, Miss M. E. Knights, Miss K. M. Perkins, Miss M. Thomas, Miss V. Thomas, Mrs. M. Woodfield. N.B.—The two ladies who failed passed all the subjects but one.

MAY4. THE NEXT APOTHECARIES' COURSE WILL COMMENCE

Wills's Universal Postal System.

For the MAJOR, MINOR, PRELIMINARY, APOTHECARIES' HALL, FAIRCHILD, BELL'S SCHOLARSHIP, and all Colonial Exams. Fee £1 1s. The Course of Instruction is not limited to any period, but may be made to extend to any length of time, from three months to three years.

OPINIONS OF THE PRESS.

- "Wills's Universal Postal System provides a complete course of 100 lessons for home students."--Pharmaceutical Journal.
- "The idea on which this system is hased is to arrange for each student his course of study, and to provide him generally with the necessary knowledge."—Chemist and Druggist.
- "Students who are unable to attend a school of Pharmacy
- will find Wills's Universal Postal System a useful means of obtaining a thorough grounding in the required subjects."

 "To an ardent, anxious pupil, we believe there is a short cut from the Westminster College to Bloomsbury Square, and that any student can become a Pharmaceutical Chemist if he Wills it."—The Chemist's Journal.

LONDON COLLEGE OF PHARMA

With which is incorporated the South London School of Pharmacy (founded by Dr. Muter in 1868). Principal—HENRY WOOTTON, B.Sc. (Lond.)

MINOR.—Course beginning APRIL 7. Fee to the July Examination £9 19 6.
BENCHES ARE NOW BEING RESERVED.

EVENING CLASSES.

Monday, 7 to 9 P.M., Dispensing and Practical Pharmacy. Thursday, 7 to 9 P.M., Practical Chemistry.

APOTHECARIES HALL. May 3. Fee 5 Guineas per term.
PHARMACEUTICAL EXAMINATIONS.
During the last Session 95 London College Students have been successful—Majors 8, Minors 87.

JANUARY MINOR.—15 passed—13 at first attempt.

The number of Students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

For Prospectus, &c., apply to The Secretary, LONDON COLLEGE OF CHEMISTRY
AND PHARMACY, 361 Clapham Road, London, S.W.



Students for Minor Exams., please note.

The undermentioned books are written expressly for those taking Minor Exams. They are terse, authoritative and necessary if you would pass. The MATERIA MEDICA has been recently revised. All six are strictly up-to-date.

Clayton's Qualitative Analysis ... 2/6 Lawson's Materia Medica 2/6 ... Volumetric Analysis ... 2/6 ... Volumetric Analysis ... 2/6 ExaminationDispensing 1/6

Northern College of Pharmacy, MANCHESTER.

Send Now. Price 12/6, post free.

THE SCHOOL FOR SUCCESS!!

South of England College of Pharmacy

186 CLAPHAM ROAD, LONDON, S.W.

Principal-H. LUCAS, Ph.C., F.C.S.

Assistant Masters—H. E. ARCHER, Ph.C.; H. STECCLES, M.P.S. EXAMINATION RESULTS, APRIL 1915.

At the recent Examination the following ten gentlemen passed the

Minor from this College:

Five passed at their first attempt, after only a three months' full time course.

Mr. C. M. CROOKS, Mr. R. NARUNSKY, Mr. J. SMITH,
,, L. V. CURTIS, ,, C. NIGHTINGALE, ,, A. E. VOSE,
,, S. A. MILBANK, ,, W. W. PERKINS, ,, E. S. WILLIAMS,

L. V. CURTIS, S. A. MILBANK, C. MORTON.

N.B.—Sixty per cent. at first attempt!
Half Term—May 17. Fee till July, £5 5s.
For prospectus and all particulars apply—The Principal.



ELECTRIC POCKET LAMPS CIGAR LIGHTERS

SAFETY RAZORS

Revised Price List, containing many New Goods, NOW PRINTING.
ARCHIBALD J. WRIGHT, LTD. 41 Beech St., Barbican, London E.C.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Britslo, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcsstle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, West-n-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.



SCARF PINS WITH MOVING EYES,— Just the thing for clerks and bosses in drug stores, as they represent the emblem of poison as used in pharmacies.

This particular pin was designed especially for onr subscribers. It is made in both dark German silver finish and in gold plate.

Take your choice. They are so made that the eyes inside the skull oscillate with every movement and show the fire of the stones. They are wonderfully interesting and fascinating and arc sure to please both the wearer and his friends. The price for one is 2s.; with THE SPATULA 1 year, 6s. State which kind you want.

1,000 WAYS AND SCHEMES TO ATTRACT TRADE.— This book is the result of over five years of observation and labour, and describes more than a thousand ideas that druggists labour, and describes more than a thousand neas that druggists and other tradesmen have successfully put into practice to increase their sales. Many of them have transformed losing businesses into profitable ones. Almost any one of them will bring you larger business and give you a bigger income. 208 pages, $9\frac{1}{2} \times 7$, and 120 illustrations. Printed on the best of white paper and bound in handsomely ornamented cover. Price 4s.; with Turk Sparuta 1 years 8s with THE SPATULA 1 year, 8s.

ONE THOUSAND FORMULAS.—A compilation giving the practical working druggist full information about the making of one thonsand of the most common and salcable preparations, by L. W. Marshall, Price 3s.; with The Spatula 1 year, 7s.

SPATULA VETERINARY FORMULARY.—A collection of practical formulas for all diseases common among horses, cattle, swine, poultry and dogs, by L. W. Marshall. Price 2s.; with THE SPATULA 1 year, 6s.

TOILET PREPARATIONS.—A treatise on the manufacture of Casein Massage Creams, Complexion Creams, 'Cold Creams and Face Creams: Powders, Toilet Lotions, Camphor Ices, Bath Tablets, and other similar preparations, including hundreds of the latest and best formulas. Compiled and edited by L. W. Marshall. Price, post paid, 2s.; with The Spatula 1 year 6s. year, 6s.

SPATULA HERB BOOK.—A classified list of Medicinal Herbs, giving botanic names and common names, with properties of each. A concise and practically complete list. Arranged alphabetically under both the scientific and the common name so that any herb may be instantly found. Price 2s.; with THE SPATULA I year 6s. SPATULA 1 year, 6s.

EXTRACTS AND PERFUMES.—A treatise on the most practical methods for the manufacture by the retail or wholesale pharmacist of Flavonring Extracts, Colognes, Toilet Waters, Perfumes, Sachets, Fumigating Pastilles, &c., together with several hundred tested and workable formulas by Prof. W. L. Scoville and other authorities. Cloth, 4s. With The Spatula 1 year. 8s.

500 SPATULA FORMULAS for the making of Common Remedies, Perfumes, Soaps, Tooth Powders and Washes, Hair Dyes, Cosmetics, Colognes, Liqueurs, Cements, Glues, Mncilages, Blackings, Corn Cures, Rat and Vermin Poisons, Extracts, Fireworks, &c. Price 2s.; with The Spatula 1 year, 6s.

SPATULA INK FORMULARY.—Recipes and directions for making all kinds of inks for all purposes by Dr. J. H. Oyster, 172 pages, bound in cloth. Price, post paid, 8s.; with The SPATULA 1 year, 12s.

300 READY-TO-USE ADS. FOR DRUGGISTS. By Chas. L. Archbold and other experts. Something for every department and every season. Nearly all have an appropriate illustration which may be used or not as desired. So arranged that they may be ent out as needed and sent to your local paper, or, to your printer as copy for counter slips. Price, post paid, $4s_{s_t}$ with The Spatula 1 year, $8s_t$.

15,000 FORMULAS.—A new and revised edition of the "Cyclopedia of Receipts." By A. A. Hopkins, Onery Editor of the Scientific American. Probably the most practical and valuable collection of formulas and receipts ever published. Besides the receipts there is a vast amount of information on various subjects. 8 pp. illustrated circular giving contents free. Price 21s.; with The Spatula, 1 year, 23s.

PRICELESS RECIPES.—3,000 secrets, 368 pages. A boo of recipes, and nothing but recipes. Not a cook book. Si cloth finish. Post paid, 3s.; with The Spatula 1 year, 7s.

HOW TO MAKE SHOWCARDS.—A practical treatise on the fundamental principles of artistic lettering with pen and brush for the nse of retail merchants and their clerks, by Charles A. Miller. Finlly illustrated with diagrams, alphabets, sample signs, &c. Heavy coated paper. The handsomest and most useful book on the subject published. 120 pages. Price 4s.; with THE SPATULA I year, 8s.

THE SPATULA.—The handsomest and most practical pharmaceutical monthly journal in the world. It is beautifully illustrated, is filled with practical articles, and will help you to make money. Subscription, 5s. 6d. post paid. Sample copy and catalogue of books free.

(Cheques on local banks in Great Britain accepted Make Money Orders payable to IRVING P. FOX, Treasurer.)

THE SPATULA, 14 Sudbury, Boston, Mass.

CLINICAL THERMOMETERS



BEST ENGLISH MAKE GUARANTEED



THE * E	MPI	RE" E	BRAND.		
	RDINARY			5. 0	
Hospital pattern			per dozen	8	0
	front		**	12	ŭ
60-seconds, plain	front		**	14	ň
30-seconds, plain				12	ŏ
1	£4			16	0
Certificate of accuracy	verified by	Kew Obse	ervatory for a	ny of	abov

	THE "DUO IN UNO" PATE	ENT	
	(QUICK SHAKE DOWN).	s.	
	Hospital pattern per dozen	12	0
	lens front	16	0
	60-seconds, plain ,,	15 20	0
ı	30 seconds plain	18	ŏ
	lene aint	27	ň
v	e Thermometers ,,	15	ň
	, , , , , , , , , , , , , , , , , , , ,		

SPECIAL OFFERS OF THE ABOVE.

THE "EMPIRE" BRAND.

es.	Pn	ıst	L					
	s.							
0	8	=	dozen	8/-	 	 attern	Hospital Pa	12
0	4	-	11 -	12/-	 	 lens front	,,	4
6	2	=	11	10/-	 	 plain	60-seconds,	3
2	1	=	11	14/-	 	 lens front		1
0	6	=	**	12/-	 	 plain	30-seconds,	6
0	4	=	11	16/-	 	 lens front	"	3
			_				-	
	2 1 6	=	11	10/- 14/- 12/-	 	 plain lens front plain	60-seconds,	3 1

29 Thermometers. List Price £1 5 8

The assortment for 20/- net cash with order.

THE "DUO IN UNO" PATENT.

				_		L	ist Pri	ces.	
							s.	d.	
6	Hospital pattern		•••	•••	12/-	dozen	= 6	0	
3	,, lens front			•••	16/-	,,	= 4	0	
1	60-seconds, plain		•••		15/-	11	= 1	3	
1	,, lens front			•••	20/-	,,	= 1	8	
4	30-seconds, plain	• • • •			18/-	,,	= 6	0	
3	, lens front				27/-	,,	= 6	9	

18 Thermometers.

List Price £1 5 8

The assortment for 20/- net cash with order.

We are the right House for BRITISH-MADE COODS—Bandages, Belts; Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushlons, Waterproof Sheeting and every description of Rubber and Vulcanite Coods.

Illustrated Price List Post Free. Our Goods are right. Money back if not satisfied.

BURGE, WARREN & RIDGLEY, LTD., 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

"A MOST GRATIFYING SUCCESS."—India-Rubber Journal, 2/1/15.

ROWE'S

Patent Hot Water Bottle Stoppers.

Patent No. 28744/13.

PAT Nº 2874 9/15

SUPPLIED TO THE WAR OFFICE.

Indiarubber Hot Water Bottles fitted with these Patent Stoppers have, during the past winter, been sold by over 5,000 Chemists, and have given entire satisfaction.

Obtainable through every wholesale house in Great Britain and Ireland.

ADVANTAGES :-

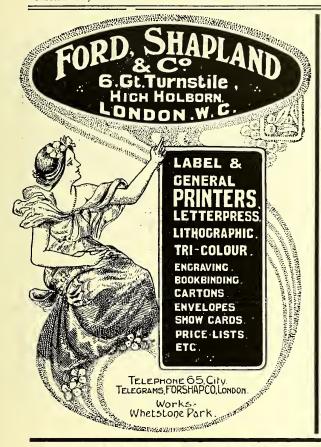
Stopper Sockets can never become loose. Bottles cannot leak around the stopper. No unsightly wiring-on of stopper. Stopper Socket firmly embedded and anchored in the neck of hot water bottle. Stoppers fitted right down at the bottom of the funnel. No scalding water left in funnel after filling.

NO EXTRA COST.

NO MORE LEAKY BOTTLES.

Sample Stopper Socket sent Post Free.

T. WILFRID ROWE, 52 HAROLD ROAD, LEYTONSTONE, LONDON, N.E.



CLINICAL

THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.
40 DIFFERENT KINDS.

Special Quotations to Wholesale Buyers

THE

'MATER"

LENS FRONT

(Regd.)

CLINICAL THERMOMETER.

P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.

Made in Two Rapidities, 1 Minute and \(\frac{1}{2} \) Minute.

New Price List of Thermometers for every purpose, post free.

PERKEN, SON & CO.LTD.

ESTABLISHED 1852.

Contractors to H.M. Government. 99 Hatton Garden, LONDON.

DODGE & OLCOTT CO.,

20 MARK LANE, LONDON, E.C.



THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

Phone: CITY 2468, BALSAMS of Copaiba, Peru, Tolu. TONKA BEANS Angosturas.

Telegrams:
"EGDARF, FEN, LONDON."

PARNALL & SONS,

SHOP MODERNISERS.

MAKERS OF THE

Crystal Showcase.

Made in all shapes and sizes.

SPECIAL DESIGNS & ESTIMATES SUBMITTED.

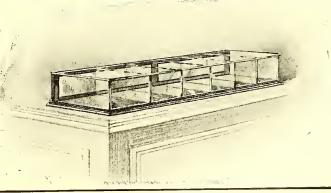
Advice & Estimates Free.

SEND FOR CATALOGUE.

BRISTOL. I

LONDON MANCHESTER.
13 Shudehill,
lansion House Ch., SHEFFELD,

44/45 Broadmead, Mansion House Che., SHEFFIELD, & Narrow Wine St. 11 Queez Victoria St. 17 & 19 Waingal





By Royal Warrant

To H.M. King George V. To H.M.
Queen Alexandra.



HOLDERS OF ROYAL WARRANTS DURING THREE SUCCESSIVE REIGNS.



Jeyes' Disinfectants

JEYES' FLUID, JEYES' POWDER, CYLLIN MEDICAL, CYLLIN MEDICAL CAPSULES (Palatinoids),

Jeysol

Identical in composition with Lysol, of absolutely equal efficiency, and making a clear solution.

Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.

WAR-

A Warrington Grocer writes: "I lost £30 a year for several years through damage done by rats. That loss is now stopped, thanks to 'Rodine.'"

£30 SAVED.

Mr. M. TOBIN, Bawn, Nenagh, writes: "'Rodine' exerts a charm which rats cannot resist. One shilling's worth has saved me many pounds."

"Rodine" Rat Poison.

"Rodine" economises by putting an end to the rats that cause so much loss to customers. Push Rodine; it helps sales and yields nearly 100% profit. Write for advertising matter to the Maker—

HARLEY, Manufacturing PERTH, Scotland.

Export Agents: TOZER, KEMSLEY & FISHER, LTD., 84 FENCHURCH STREET, LONDON, E.C.



"ACME"

WEED KILLERS

Have now a large sale through CHEMISTS, and early application should be made for illustrated Counter Bills & Showcards

Commended by Royal Horticultural Society.



POWDER WEED KILLER.

Packed in small decorated tins. Immediately soluble in cold water,

All Tins Free. No return Empties.
SPECIALLY ADAPTED FOR EXPORT.

LIQUID WEED KILLER.

Strength: 1 gall. sufficient for 25 galls. of Water.

AND DOUBLE STRENGTH.

ARSENITE OF SODA, 80% ARSENATE OF LEAD. QUASSIA CHIPS.

The Acme Chemical Company, Ltd. TONBRIDGE, KENT.

And RIVER STREET, BOLTON, LANCASHIRE.

BACTERIOLOGICAL PEPTONE

High Proteid Content.

Low Ash.

Free from Diluents.

DIASTASE

THYROID SUBSTANCE

PEPSINES

THYMUS

PANCREATIN

OVARIAN

TRYPSIN

PITUITARY

We devote our whole time and attention to the manufacture of Digestive Ferments and Organo-Therapeutic Products, and we claim to produce the HIGHEST qualities at the LOWEST prices.

THE DIGESTIVE FERMENTS CO.

DETROIT. U.S.A.

STOCKS HELD BY MAY & BAKER, LTD., BATTERSEA, LONDON. s.w.

LYMN'S BRITISH LYSOL

is not merely GENUINE LYSOL, it is superior in every way to the original German product (wherever made) for the following reasons:—

- I. It is quite free from Phenol.
- 2. It is perfectly neutral in reaction.
- 3. It is readily soluble in water.
- 4 Its carbolic co-efficient is remarkably high.
- 5. Its percentage of cresylic acids (ortho-meta and para cresols) is over 50 %
- 6. It is made in England by an all-British and always-British firm.

Mr. Ernest J. Parry, the eminent analyst, reports as follows:—

Thanet House, 56a Gt. Dover St., S.E., 4th March, 1915. "I have made a chemical and bacteriological examination of the sample of LYMN'S BRITISH LYSOL, and have to report as follows:—1. This sample is readily soluble in water. 2. It is perfectly neutral in reaction. 3. It contains 52% of Cresylic Acids distilling below 210°. 4. Its carbolic acid co-efficient is 2.9."—(Signed) Ernest J. Parry.

Put up in 4 oz., 8 oz., and 16 oz. bottles, or can be supplied in bulk.

Manufactured by THE LYMN BOWATER CHEMICAL COMPANY.

Sole Distributors: Aerators, Ltd., Upper Edmonton, London, N.

Antimeningitis Serum Mulford

For the Treatment of Cerebrospinal Meningitis

The use of Antimeningitis Serum has been placed on a secure basis by the scientific work of Flexner and others at the Rockefeller Institute, and confirmed by extensive clinical observations. The mortality of the disease is reduced from the usual rate, between 70 and 90 per cent., to about 25 per cent. As with other curative serums, it is essential that Antimeningitis Serum be used early and in sufficiently large dosage. The serum must be introduced directly into the spinal canal, as absorption of fluids from the general circulation into the spinal canal is extremely slow, and it is essential that the serum in high concentration be brought in direct contact with the diplococcus if the best results are to be obtained.

Meningo-Bacterin Mulford

(Meningococcus Vaccine)

and

Meningo - Serobacterin Mulford

(Sensitised Meningococcus Vaccine)

For Immunisation Against Cerebrospinal Meningitis

In January, 1913, 68 cases of cerebrospinal meningitis with 44 deaths occurred in Dyer County, Tennessee. During the epidemic there was a total of 145 cases with 80 deaths.

Results of Immunisation with Meningo-Bacterin.—Over 10,000 persons were immunised with Meningo-Bacterin. No cases of cerebrospinal meningitis were reported among those receiving the full immunising treatment.

H. K. MULFORD COMPANY, Philadelphia, U.S.A.

Manufacturing and Biological Chemists,

LONDON: 119 HIGH HOLBORN, W.C.

Distributing Agents: THOMAS CHRISTY & CO., Old Swan Lane, London, E.C.

Chemists & Packers of Sundries

- Should Write for Particulars of -

HAND FILLING TAPS,
FLAT TIN FILLING MACHINES,
LOWPRICED BOTTLE FILLING MACHINERY,
ACCESSORIES, SPECIALLY CONSTRUCTED FOR
RETAIL AND SMALL WHOLESALE
ESTABLISHMENTS, to

ROBERTS'

PATENT FILLING MACHINE CO.,

Mesd Office & Showroom: 33 Roundcroft St., BOLTON.

STOP GUESSING



Are You Interested

SAFETY RAZORS

: ENTIRELY : BRITISH MADE.

SEVEN PATTERN FRAMES
MADE UP INTO

TWENTY-FIVE VARIETIES

TO RETAIL FROM

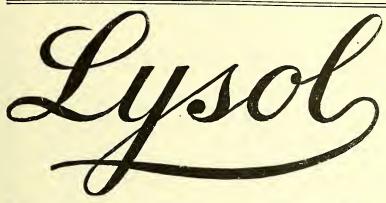
1/- то 10/6

—— EACH. ——

WILLIAM P. KELLAND,

36 Camomile Street, LONDON, E.C.

And 52 St. Enoch Square, GLASGOW.



BRITISH MADE AND OWNED_

Satisfy Your Customers' Demands === for the Right Article. =

GENEROUS CHEMISTS. **TERMS** TN

Showcards, Literature and Samples Provided.

SEND FOR TERMS.

CHAS. ZIMMERMANN & CO. (CHEM.), LTD., 9-10 St. Mary-at-Hill, LONDON, E.C.



COPPER

VACUUM STILLS DIGESTERS JACKET PANS PERCOLATORS CONDENSERS **EMULSIFIERS** ETC. ETC.



FOR THE STRENGTHENING OF ALCOHOLIC LIQUORS AND RECOVERY OF SOLVENTS.

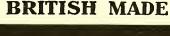
HIGHLY RECOMMENDED FOR ACETONE, ETHER, PETROL, ETC. ETC.

JOHN DORE & CO.

Distillers' Engineers & Coppersmiths,

28-30 HICH STREET, BROMLEY, LONDON, E.

Telephone: 136 EAST.

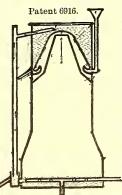


SCENT SPRINKI COLLAPSIBLE TUBES

Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mig. Coy., NEW SOUTHGATE, LONDON, N.



MANUFACTURING

TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c. We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will stuffer the stuffer of the stuffer

Pamphiets & particulars forwarded on application

BROWN & SON, Muriel St., King's Cross, London, N.

THE "SANOID"

BATH AND FLESH GLOVES.

Made on our Premises.



"LOOFAH."



"TURCO."

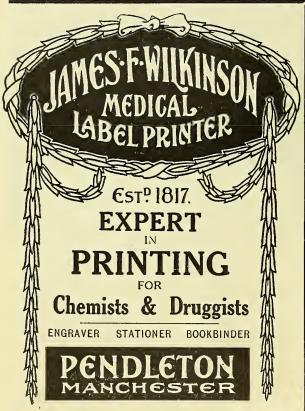


" FANCY."

Loofah	both	sides	•••	•••	•••	1	pairs.
22	,	,	turco	bound	ł		10/6
>>	and	turco			•••	•••	7/-
99	and	fancy	turco		•••		7/6
,,	and	calefa	icio		•••	•••	7/6

							r aoz.
						1	airs.
Turco	white,	thin					2/3
	,						
99	99	thick			• • •	• • •	3/3
39	99	extra	thick				5/-
							-,
Fancy		d blue			squa	tres,	
	two p	attern	S	• • •	•••	•••	3/9
**	blue a	nd red	diago	onal	saua	ares	4/-
"					1		•

CUXSON, GERRARD & CO., Ltd., OLDBURY.



Telegraphic Address: "REINDEER, MANCHESTER." Telephone : CITY, 1102.





"PORTIA"

(Regd.) NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price Retail
11/6
1/6
dozen. each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.

The following are Typical Examples of the

PRODUCTS MANUFACTURED **OUR MODEL LABORATORIES**

We offer these at Strictly Competitive Rates

EUONYMIN HAMAMELIN

HYDRASTIN IRIDIN

LEPTANDRIN

ALOIN CAFFEINE CHRYSAROBIN

JALAP AND SCAMMONY RESINS

PODOPHYLLIN

GINGERIN & CAPSICIN

BISMUTH SALTS

SALTS OF ALL THE METALS & NON-METALS

ACETANILIDUM

HEXAMINA

TERPENELESS OILS, ANETHOL, &c.

ALKALOIDS

TABLETS AND PILLS OF THE MOST ELEGANT FINISH AND ACCURATE DOSAGE

BURGOYNE, BURBIDGES & CO.

All Communications should be addressed to

EAST HAM

LONDON. E.

Telegrams:
"CHEMICKING, FEN, LONDON."
Telephone No.:
AVENUE 6660 (3 lines).

63 Crutched Friars, London, E.C.

Reitmeyer & Co.

for many years the <u>Sole Sellers</u> in Great Britain and Englishspeaking countries of the Chemicals manufactured by some of the best known

FRENCH, SWISS,

ACIDS:

ACETYLSALICYLIC, BENZOIC,
CITRIC, DIETHYLBARBITURIC,
SALICYLIC, PHOSPHORIC, PYROGALLIC,
TANNIC, GALLIC, & TARTARIC.

ALKALOIDS:

ADRENINE, ARECOLINE, COCAINE, COTARNINE, ESERINE, STRYCHNINE,

CACODYLATES, CREAM OF TARTAR.

DIACETYLMORPHIA, ETHYL CHLORIDE.

GLYCEROPHOSPHATES, GUAIACOL,

and preparations.

HEXAMINE. LITHIUM SALTS. MERCURIALS: METHYLSULPHONAL.

ITALIAN, AMERICAN FIRMS.

PHENACETIN, PHENAZONE,
PHENOLPHTHALEIN, DIAMIDOPYRINE,
PHOTOGRAPHIC CHEMICALS
(Pyrogallic Acid, Metol, Amidol, &c.)

PHYSIOLOGICAL PRODUCTS (Pancreatin, Diastase).

POTASSIUM SALTS.

QUININE SALTS, SALOL, SALICYLATES. RESORCINE.

SILVER SALTS

(Proteinic, Nucleinic, &c.)

SUGAR OF MILK, SULPHONAL, THYMOL, TRIONAL. UROPURGOL. VANILLIN, YOHIMBINE.

Limited Stocks of above products in London.

DIRECT SHIPMENTS FROM GENOA, MARSEILLES, NEW YORK, PHILADELPHIA, AND BOSTON.

The 'WELLCOME' Photo Exposure Record and Diary

How to Sell More

Methods
which
Command
Success

What is your stock—one dozen, three dozen or a gross?

Put it in the window, except one or two copies for counter use.

Use the NEW SHOWCARD, it is highly effective and should be given the utmost prominence. Follow up the selling force of your display by keen enthusiastic salesmanship.

Let every likely customer handle a copy. Point out the scope and practical character of the contents. Show how the Exposure Calculator is used.

These methods will quickly sell your present stock, and more besides.

If you have never sold this book, order a trial dozen to-night and begin without delay—it will pay you.

WRITE NOW FOR THIS DISPLAY

Only a limited number available.

The first requests secure them



The materials supplied for making this window display include copies of the book (unsaleable, and returnable at termination of display); showcard, price tickets: circulars, wood and cardboard supports for forming pyramids, etc.

Address-

BURROUGHS WELLCOME & Co.
10, Snow Hill Buildings
LONDON, E.C.

The Success of Last Season.

RTFR'S SALINE or

Retail $4\frac{1}{2}$ d. per tin. Wholesale 3/3per doz. 8글d. 6/3

The wholesale price is subject to our usual profit-sharing discount.

The sale of Dr. Carter's Saline or Liver Salt is reserved to Chemists The Salt is packed in handsome enamelled lever-lid tins. Large Showcards and Window Bills supplied, This Salt is a thoroughly reliable product, and most efficacious. Chemists have found this a Good Selling Line, and quickly repeats.

CUPAL, Ltd., BLACKBURN.

PEPTONE

(FAIRCHILD)

This Peptone is of an excellent quality for every purpose for which Peptone may be employed—technical or alimentary.

PEPTONE-FAIRCHILD may be used in all bacteriological formulæ, in the usual quantities.

Supplied in $\frac{1}{4}$ lb. bottles at 4/-, $\frac{1}{2}$ lb. bottles at 7/-, 1 lb. bottles at 13/- each. Subject to B. W. & Co.'s Terms.

PRICES FOR QUANTITIES IN BULK TO BE HAD ON APPLICATION.

Report from the "CHEMIST & DRUGGIST." February 6, 1915.

Peptone for Bacteriological and other purposes has been exceedingly scarce since the war began. Fairchild Bros. & Foster, New York, as makers of it, took steps to send supplies here, and after some delay, owing to shipping difficulties, stocks have been received. We have had an opportunity of examining the product, and find it to be physically a better peptone than has hitherto been imported from Germany. It is a white powder, soluble in water, and only slightly bitter, showing that the peptonising-process has been well controlled. Peptone is largely employed in bacteriological work, and in some technical processes, as well as a nutrient. The Fairchild product is well suited for all these purposes, and pharmacists can get it in \$10.\, \frac{1}{2}\$ lb. and 1 lb. bottles, while larger users who want bulk quantities can obtain quotations on application to Fairchild Bros. & Foster, 64-65 Holborn Viaduct, London, E.C., or their agents, Burroughs Wellcome & Co.

Made by

Bros. & Foster, Fairchild NEW YORK, and 64/65 Holborn Viaduct, LONDON, E.C. Agents:

Burroughs Wellcome & Co., LONDON - SYDNEY - CAPE TOWN



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades. ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

"Martin's Bank (Limited)." Terms for advertising can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three liner). Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 15 (Series No. 1837), Vol. 86.

LAGE	1 AG
At the CounterCol. Supp.	Marriages 39
Australasian News Col. Supp.	New Companies 39
Births	Observations and Reflec-
British Pharmaceutical Con-	tions 45
ference 48	Personalities 44
Coming EventsCol. Supp.	Pharmaceutical Society-
Contracts	Council-meeting 49
Correspondence59	Financial Statements 50
Deaths	Presentation to the Presi-
Deed of Arrangement Col. Supp.	dent 51
Editorial Articles-	Evening Meeting in Edin-
Insurance Act Dispensing 46	burgh 51
Notes 47	Examination Results 52
English News 34	Retrospeet 60
French News 36	Scottish News 36
India and the East 37	South African News 37
Information Department 44	Trade-marks 53
Insurance Act Dispensing 41	Trade Notes 40
Inventions that have become	Trade Report 54
Public Property 48	Veterinary Notes 48
Irish News	WillsCol. Supp.
Legal Reports 38	Winter Session53

Summary.

Dr. Otto N. Witt, of Berlin, is dead (p. 39).

Notes on cinchona in Java, Madras, and Madagascar are printed on p. 58.

Some valuable figures in regard to the output and destination of ipecacuanha are given on p. 58.

Some interesting Pharmacopæia and practical notes are included in the North British Branch report (pp. 51-52).

New Regulations bearing upon Pharmaceutical Committees under the National Insurance Act have been prepared. See pp. 43-44.

Mr. S. B. Turney, one of the oldest pharmaceutical chemists in England, is dead; also Mr. James Hargreaves, the electrolytic alkali inventor (p. 39).

There will be no Pharmaceutical Council election this year, but Mr. John Keall and Mr. J. P. Gilmour will take the place of Mr. C. B. Allen and Mr. David Gilmour (p. 44 and p. 47).

Another attempt is being made in Manchester to put the blame on chemists of the cost of excessive prescribing by panel doctors (p. 46). This is leading to a newspaper agitation to start State dispensaries.

The chief matters dealt with at the Council-meeting of the Pharmaceutical Society of Great Britain were the report of the deputation to Mr. Montagu and the announcement of the Councillors for the new year beginning after the annual meeting (p. 49).

Out of the 60,000l. voted by Parliament as an extra grant for Insurance Medical Benefit part is to be appropriated to payment of chemists' 1913 accounts. This was promised by Mr. Montagu, Chairman of the Insurance Commission, to a pharmaceutical deputation on Tuesday (p. 41).

Borax, boric acid, guaiacol carb., hydrobromic acid, cumin-seed, cannabis indica, Cartagena ipecac., limc oil, terebene, turpentine, and phenolphthalein are dearer. Ammonia sulphate, lemon and bergamot oils, E.I. castor oil, canary-seed, orris oil, and Mexican sarsaparilla are on the acid with the care side. the easier side (p. 55).

European War.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—Cicero. TWENTY-NINTH LIST.

BUTTERFIELD, Second-Lieutenant J. Gerald (son of Mr.

BUTTERFIELD, Second-Lieutenant J. Gerald (son of Mr. J. W. Butterfield, chemist, Darwen), County Palatine Artillery (promoted from the 11th Hussars).

Doll, Staff-Sergeant Arthur J., dispenser, South African Railways, Bloemfontein, 7th Mounted Brigade Field Ambulance, South African Field Force.

FAULKNER, Lieutenant William (elder son of Mr. W. Faulkner, chemist, Clarendon Road, Notting Hill, W.), 11th Battalion East Lancashire Regiment. Lieutenant Faulkner joins the Oxford University O.T.C. this week.

FRICKER, Sergeant Lionel, chemist and druggist (Pickwick Drug-stores, Corsham), 15th Field Ambulance, R.A.M.C., British Expeditionary Force, [Corrected note.] PRICE, A. E., Oxford (Herbarium Medallist, 1914), 4th Battalion Seaforth Highlanders (transferred from 4th Oxon and Bucks Light Infantry).

and Bucks Light Infantry).

Notices as to Exports of Chemicals, etc.

NORWAY.—The Board of Trade are in receipt of telegraphic information to the effect that the export of the folgraphic information to the effect that the export of the fol-lowing articles has been prohibited: Paraffin wax, mineral wax (ozokerite), ceresin, rapeseed oil, olive oil or sweet oil, hempseed oil, maize oil, soya oil, castor oil, ground-nut or arachides oil, sesame oil, cottonseed oil, palm oil, palm-kernel fat, cocos oil or coconut oil, lubricants manufactured wholly or in part from vegetable oils or fats, greases con-taining resin, bone-fat.

UNITED KINGDOM.—The War Trade Department give notice to persons desiring to obtain licences for the export

United Kingdom.—The War Trade Department give notice to persons desiring to obtain licences for the export of prohibited or restricted goods that arrangements have now been made with the Commissioners of Customs and Excise for the supply of the necessary forms of application on personal request at certain offices of Customs and Excise. These offices are as follows: The Custom Houses at Aberdeen, Belfast, Bristol, Cardiff, Dublin, Dundec, Glasgow, Greenock, Grimsby, West Hartlepool, Harwich, Hull, Ipswich, Leith, Liverpool, London, Manchester, Middlesbrough, Newcastle-upon-Tyne, Plymouth, Southampton, Sunderland, and Swansea; and the offices of the Collectors of Customs and Excise at Birmingham, Bolton, Bradford, Burton, Chester, Leeds, Leicester, Northampton, Norwich, Nottingham, Reading, Sheffield, Wolverhampton, and York. The forms can also be obtained by personal or written application at the War Trade Department. All communications in respect of any such applications should be addressed to the Secretary, War Trade Department, 4 Central Buildings, Westminster, S.W.

Belgian Doctors' and Pharmacists' Relief Fund.

Belgian Doctors' and Pharmacists' Relief Fund.

The subscriptions to the Fund during the fortnight that has elapsed since the last list was published include a donation of fifty guineas from Fairchild Bros. & Foster and a first contribution of 100l., through the Agent-General, from the Queensland Section of the Australian Pharmaceutical Conference. Mention may also be made of seven guineas, the proceeds of the annual dinner of the West Ham, etc., Association, and also 5l. 14s. 6d. (second contribution) collected by the Western Pharmacists' Association. The following are the subscriptions received up to April 6: H. Crompton, 1l. 1s.; W. Griffiths, 10s. 6d.; A. Chapman, 3s. 9d.; G. Knowles, 1l. 1s.; J. H. Hart, 1l. 1s.; Lanarkshire Pharmacists' Association (per J. Lohoar), 1l. 1s.; Fairchild Bros. & Foster, 52l. 10s. Collected by Mr. D. A. Evans from members of the Bath Pharmaceutical Association (per W. J. Hallett): Steele & Marsh and staff, 1l. 3s. 6d.; Hawes, Whiston & Co., 10s. 6d.; Luther Wilson, 10s. 6d.; A. C. Olds & Co., 10s. 6d.; Tylee & Cooper, 10s. 6d.; A. Ppleby & Co., 10s. 6d.; W. J. Hallett, 10s. 6d.; Davies & John. Ltd., 10s. 6d.; Wilkinson & Dickinson, 10s. 6d.: S. T. Briggs, 5s.; A. E. Grimwade, 1l. 1s.; MissA. McNicol, 10s. West Ham, etc., Association of Pharmacists (proceeds of dinner, per W. T. Johnson), 7l. 7s. Collected by the Western Pharmacists' Association (per W. E. D. Shirtliffe) (second contribution), 5l. 14s. 6d. Collected by the Norwich Pharmacists' Association (per W. E. D. Shirtliffe) (second contribution), 5l. 14s. 6d. Collected by the Birmingham Pharmaceutical Association (per F. Smith): H. O. Lloyd, 1l. 1s.; Queensland Section of the Australasian Pharmaceutical Conference (first contribution) (per tho Agent-General), 100l. The following is a second list of contributions received by the Committee in Scotland: Boot's Pure Drug Co., Ltd., 5l. 5s.; A. Kennedy, Edinburgh, 3l. 3s.; Glasgow Chemists' Association and Pharmacy Athletic Club (per Wm. Seivwright, Glasgow), 2l.; A. P. McCal The subscriptions to the Fund during the fortnight that

Association (per C. Hoy, Kelty), 11. 7s.; R. Cairnie, Lochgelly, 11. 1s.; M. Carmichael, Glasgow, 11. 1s.; John Currie, Ltd., Glasgow, 11. 1s.; James Finlay, Edinburgh, 11. 1s.; John Fraser, Dumfries, 11. -1s.; J. Edinburgh, 11. 1s.; John Fraser, Dumfries, 11. -1s.; J. O. Kay & Son, Cumnock, 11. 1s.; T. McKenzie, Inverness, 11. 1s.; J. B. McLaren, Kirkcaldy, 11. 1s.; J. H. Nicholson, Maxwelltown, 11. 1s.; A. W. Ritchie, Montrose, 11. 1s.; R. Robertson, Dunfermline, 11. 1s.; J. H. Scroggie, Lauder, 11. 1s.; Smith & Govan, St. Andrews, 11. 1s.; G. Somerville, Edinburgh, 11. 1s.; D. N. Wylie, Edinburgh, 11. 1s.; R. A. Scott, Motherwell, 11.; Alexander Davidson, Montrose, 10s. 6d.; D. Dunnet, Falkirk, 10s. 6d.; J. S. B. Heddle, Leith, 10s. 6d.; W. J. Jack, Lochgilphead, 10s. 6d.; J. G. Sclater, Edinburgh, 10s. 6d.; F. W. Soddy, Glasgow, 10s. 6d.; G. Stewart, Kirkcaldy, 10s. 6d.; R. Aitken, Dunbar, 10s.; Miss R. R. Bell, Edinburgh, 10s.; D. Black, Glasgow, 10s.; A. J. Clark, Edinburgh, 10s.; J. Smith, Aberlour, 10s.; D. Walker, Lockerbie, 10s.; Miss M. D. Hutchison, Edinburgh, 9s.; P. S. Beatton, Port Glasgow, 7s. 6d.; W. C. D. Robertson, Cockenzie, 6s.; Wm. Barrie, Cambuslang, 5s.; C. P. Payne, Innetleithen, 5s.; W. J. Cameron, Portobello, 5s.; A. Gold, Larkhall, 5s.; A. Inglis, Edinburgh, 5s.; A. MacDonald, Dunfermline, 5s.; F. Nisbet, Leith, 5s.; A. A. Porteous, Lerwick, 5s.; Findlay Stuart, Broxburn, 5s.; J. M. Turner, Falkirk, 5s.; Wm. Walker, Dundee, 5s.; Miss E. R. Hodge, Dumbarton, 2s. 6d.

Miscellaneous. MR. W. C. Bates, son of Mr. W. C. Bates, chemist and druggist, Southampton, has left for Serbia with the 4th (British Farmers') Unit, under the Serbian Relief Fund, having volunteered for hospital work.

having volunteered for hospital work.

Khaki-dye.—Owing to the shortage of yellow dyestuffs, the Imperial Institute has taken steps to place British dyestims in touch with fustic-producers in Jamaica, and negotiations are pending for the purchase and shipment of considerable quantities of Jamaica fustic to this country.

"Supplying the Enemy with Ammunition" is the title of a brilliantly-written article contributed by Sir William Ramsay, K.C.B., F.R.S., to the "Daily Express," April 1. It, describes the chemistry and physics of explosives in a popular manner, and concludes: "So long as we let cotton and oils into Germany we are virtually supplying the enemy with ammunition, and it is essential that their entry should be barred by every legitimate means."

Cotrat Chroular, Buckinghum Palace, March 30.—"The Queen this afternoon, in the garden of the Palace, inspected

Cotret Chechar. Buckingham Palace, March 30.—"The Queen this afternoon, in the garden of the Palace, inspected the motor field ambulance 'Sudan,' presented to her Majesty by Lady Wingate and the British residents in the Sudan for service at the Front. Doctor Andrew Balfour had the honour of presenting the ambulance to the Queen on behalf of the deners." Dr. Balfour, C.M.G., is director-in-chief of the Wellcome Burcau of Scientific Rescarch, and was the first 'director of the Wellcome Tropical Research Laboratories at Khartoum.

'Alenement Patents: Further licences in regard to amline-dye patents 18569/02 and 26132/03 (Farbenfabriken vorm. F. Bayer & Co.) have been granted by the Board of Trade to Read Holliday & Sons, Ltd. Licences have been granted for the "Syntan" patents, 4648/11 (Nacf) to C. S. Bedford, and 8511/12 (Badische Anilinund Soda-Fabrik) to W. L. Ingle, Ltd., C. S. Bedford, and Joseph Turner & Co., 'Ltd. 'The patents for the tanning process in which "Syntan" is used 8512/12 and 24982/12 (Badische Anilinund Soda-Fabrik), have been suspended in favour of three applicants. applicants.

News from Austria and Germany.

Chemische Fabrik (vornals E. Schering).—The gross profits for the business year 1914 amount to 1,828,416m. (against 1,877,607m. in 1913). A dividend of 11 per cent. will be paid, against 15 per cent. in 1913.

The Badische Anilin. und Soda-Fabrik at Ludwigshafen is now working almost entirely for the German Government, and nearly the whole of the army clothing has been dyed at these works. The number of employés has increased from 12,000 before the war to nearly 20,000.

METAL-FAMINE.—The commandering of metals in Germany has been extended to tangsten, chromium, molybdenum,

METAL-FAMINE.—The commandeering of metals in Germany has been extended to tungsten, chromium, molybdenum, vanadium, and manganese. Declaration of existing stocks is only obligatory in the case of large quantities—c.g., chromium in quantities exceeding 150 kilos.

GERMAN POTASH SYNDICATE.—At the last meeting of the Potash Syndicate it was announced that, in consequence of

the export prohibition and the scarcity of railway-waggons, the value of the distribution in January last was only 26,000,000m. against 49,000,000m. in the corresponding many of the works to be run at a loss. It was resolved to postpone until March 31, 1914, the right of denouncing the Syndicate agreement.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Store-prices.

The members' circular of the Civil Service Supply Association for April contains three pages of matter relating to the drug department. Special prominence is given to weed-killers, fumigating compounds and insecticides, and to pure liquid paratfin (of Russian origin) for internal use (8 oz. 1s. 1d., 16 oz. 2s., 40 oz. 4s. 6d.; or in jars. ½-gal. 8s. 9d., 1 gal. 16s.). The recent additions to stock include ampoules of iodine solution characteristics of stock incline ampounes of notine solution (box of six, 1s. 3d.); aseptules of iodine tincture (3s. per doz.); aspirin tablets (C.S.S.A.), 5 gr., 25 8d., 100 2s. 3d.; C.S.S.A. eau de Cologne, 6 oz. 2s. 10d., 12 oz. 5s. 6d.; lanoline (C.S.S.A.), 5d. and 8d. per tube; liquid extract of malt (C.S.S.A.), 6 oz. 8d., 12 oz. Radium bath-salt (1s. packets) and Sanaphos (tins), 1s. 2s. 6d., and 5s. A number of articles have been increased in price in consequence of the effect of the war, the list of revised prices occupying half of the space.

Birmingham.

Three women who put mineral water in the bottles of other manufacturers have apologised publicly in the Press to avoid legal proceedings.

Local chemists have decided to abandon cricket, tennis, and golf this summer, and are arranging monthly excursions to local places of interest.

Highbury, the house that Mr. Joseph Chamberlain built, is to be transformed into a military hospital of 130 beds subsidiary to the University Hospital.

In the midst of such prosperity as was never known in Birmingham before, drysalters are having a very good time. The city is the home of this class of trader.

Messrs. Bellamy & Wakefield, in advertising their corncure speciality, have a telling advertisement in the local Press which is couched in the martial strain so common at present.

An interesting "Business Club" has been started in Birmingham, with an established club-room at the Grand Hotel. Its objects are to organise business men of the city and district and to improve methods of advertising, selling, and business organisation generally. started with a strong membership.

The University of Birmingham is offering to young people, for competition on the results of examinations matriculation and otherwise in July next, fourteen entrance scholarships, tenable for four years, at the University, giving free admission to the degree courses of any faculty to candidates who apply for them on the ground of inability to pay University class fees.

The pharmacy of the "Croix de Lorraine" (formerly Croix-de-Genève). Snow Hill, St. Helier, Jersey, has been reopened. It remains under the proprietorship of Dr. Cibot, whose wife has taken charge during his absence at the Front with the French troops. Mme. Cibot is a duly qualified pharmacist.

At the recent annual meeting of the Jersey Bowling Club, Mr. Jas. J. Dupré was elected Vice-President. Mr. Dupré was formerly sole proprietor of Luce's Jersey Eau de Cologne, having married the daughter of the original maker, the late George Luce, and still supervises the operations of the Jersey branch of Luce's Eau de Cologne

Co., Ltd.

Manchester.

There are twenty-seven candidates for twenty-four seats at the forthcoming Council election of the local Pharmaceutical Association. The Council consists of six general members and eighteen district members (two to each of nine districts). In one district there are four candidates and in another three candidates. None of the members of the present Council have retired, and all are eligible for re-election.

The meeting of the British Association arranged to be held in Manchester will be from Tuesday, September 7, to Saturday, September 11. This is a departure from the usual practice, the meeting usually extending from Wednesday of one week to the Wednesday of the following week, and is part of the plan approved by the Council of the Association for reducing the time usually devoted to pleasantries.

A very fine framed enlargement (12 by 10) of Lord Kitchener inspecting 12,030 troops in Albert Square, Manchester during his recent visit to the city, is at present on view in a prominent establishment in Market Street, and is attracting crowds. It is from a photograph taken by Mr. J. Cleworth, pharmacist photographer, Manchester, who informs us that he has had the pleasure of supplying the same picture to several prominent citizens.

Miscellaneous.

At Norwich on April 3, Mr. Leonard Tillett, described as a chemist, was fixed 5s, for a breach of the lighting order under the Defence of the Realm Act.

Three deaths due to taking poisons have been reported during the week, two of them being due to misadventure. The poisons implicated were laudanum, morphine, and spirit of salt.

At Pontefract Police Court on March 27, a married woman named Florence Aldridge was charged with stealing a tablet of soap from the pharmacy of Mr. George Hodgson, chemist and druggist, South Kirkby, and was ordered to pay 11. 5s. 7d. costs.

At Swaffham on March 29, a youth named George Morgan Moreton pleaded guilty to a charge of stealing a camera and a eigarette-case from the shop of Mr. Fred. Christopherson, Ph.C., Swaffham, on March 27, during the temporary absence of Mr. Christopherson. He was bound over for six months as a first offender.

The Wandsworth Guardians have decided, subject to the approval of the Local Government Board, to award a gratuity of 181. 14s. 3d. to Mr. W. W. Mathewson, dispenser at their Latchmere Road Dispensary, for undertaking the work at No. 1 Battersea Dispensary from October I, 1914, to February 8, 1915.

At Brentford Police Court on March 30, Frank Miller (55), described as of independent means, was again remanded on a charge of obtaining credit to the amount of 31, from Mr. A. V. Dewdney, chemist and druggist, manager to Mr. Donald Fife, chemist and druggist, Cambridge Parade, Twickenham, with intent to defraud (C. & D., March 20, p. 37).

The East Sussex Coroner on April 6 adjourned an inquest regarding the death of Mrs. Woodman (32), Willingham. Dr. Willcox's evidence regarding the post-mortem examination was to the effect that the cause of death was heartfailure due to septic poisoning following upon two subcutaneous injections of pituitary extract prescribed by Dr. Tunnicliffe, Harley Street, and administered by Dr. Emmerson, Eastbourne, who deposed that he had obtained it in ampoules from Martindale's.

At Hastings on April 1, Mr. James Williams, chemist and druggist, 187 Queen's Road, Hastings, was fined 1/. 1s. for a breach of the Defence of the Realm Act in regard to an external red light at his premises on the night of March 20. A constable stated that he told defendant of the regulatious, and said that the light must be extinguished, but defendant refused. Mr. Williams said the lamp was the lowest red electric light he could procure, and he thought that it was right that chemists and doctors should show a little red light.

At a meeting of the Blackburn and East Lancashire Royal Infirmary Board of Management on April 7, it was announced that Mr. Thomas Critchley, J.P., chemist and druggist, King William Street, had subscribed 1,000% for the endowment of a bed at the institution in the joint names of himself and his wife, in commemoration of his eightieth birthday on April 15. The Board gratefully accepted the gift. Mr. Critchley has been a life governor of the Infirmary for many years, and is rarely absent from the annual meetings. In his early years Mr. Critchley was assistant to his relative, Mr. John Critchley, in Darwen Street, Blackburn, and it is interesting to note that his eightieth birthday coincides with the fiftieth year of his establishment as a chemist and druggist in King William Street. He was the first President of the North-East Lancashire Chemists' Association.

South of England College of Pharmacy.—At the College examinations held at the end of the Spring term the following awards were made: Silver Medal (for highest

aggregate marks), L. V. Curtis. Chemistry: Bronze Medal, L. V. Curtis; Certificates—For practical work, J. Smith, G. M. Crooks, and L. V. Curtis; for theoretical work, A. E. Vose and L. V. Curtis; Pharmacy: Bronze Medal, L. V. Curtis; Certificates—For dispensing, J. Smith, R. Narunsky, and L. V. Curtis; for theoretical pharmacy, J. Smith, A. E. Vose, E. S. Williams, G. M. Crooks, and L. V. Curtis. Materia Medica: Bronze Medal, G. M. Crooks; Certificates, J. Smith, L. V. Curtis; Certificates, G. M. Crooks, The Medal, L. V. Curtis; Certificate, G. M. Crooks, The Medal, L. V. Curtis; Certificater, G. M. Crooks, The Matenborough Prize for Dispensing, J. Smith, The Matone-Barrett Prize for General Progress, A. E. Vose, All the above students qualified at the recent Minor examination in London.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Mr. Robert F. Blake has been reappointed analyst tothe Cookstown Board of Guardians at a salary of eight guineas per annum.

Dr. N. O. McConnell, the Medical Hall, 113 North Street, Belfast, is a candidate for a vacancy in the Belfast Corporation as Councillor.

Mr. W. H. Moss, F.I.C., A.R.C.Sc.I., of the Royal College of Science, Dublin, is joining the chemical staff of Read Holliday & Sons, Ltd., Huddersfield, who are extending their amiline-dye factory.

A surgery has been opened at II7 York Street, Belfast, by Dr. Barron, in premises formerly occupied by Hill & Co., Ltd., chemists and druggists, who have recently removed to a larger shop in the same thoroughfare

Mr. Noble Graham, Ph.C., 217 Lisburn Road, Belfast, has retired from business, and the fixtures and fittings of his establishment have been purchased by W. J. Balmer, Ltd., who are opening new premises at Gelston's Corner, Strandtown, Belfast.

Mr. H. F. Moore, Ph.C., has acquired premises at 134 Royal Avenuc, Belfast, where he intends to open a pharmacy. Mr. Moore was formerly at Tate's Mcdical Hall, Royal Avenue, and subsequently with Harmur, Ltd., cash chemists, 29 Anne Street, Belfast.

The War Office has accepted the services of Alderman Dr. J. C. McWalter as an army surgeon, but the Director-General, Dr. Anderson, has informed Dr. McWalter that owing to the nature of his professional duties in Dublin he will not be called upon for active service unless in case of necessity.

The closing social of the Winter Session of the Chemists and Druggists' Society of Ircland was held on March 31 in the Society's room, Il Waring Street, Belfast. The proceedings took the form of a whist-drive. The prizewinners were: Ladics.—Miss Nevin and Mrs. W. J. Gibson. Gentlemen.—Mr. S. Gibson, J.P., and Mr. John Frackelton. The prizes were presented by the President, Mr. Samuel McDowell.

At the monthly meeting of the Belfast Corporation on April I, the Tramways and Electricity Committee stated that their legal adviser had reported upon the claim of Mr. W. H. MacBride, druggist, 197 and 199 Woodstock Road, for compensation for damages in connection with injury caused to his premises and business by short circuiting in an electric junction box opposite his premises. It was resolved to leave the matter in the hands of the town solicitor to settle on terms mentioned to the Committee.

Drug-contracts.

The tender of Fred Storey, Ltd., Belfast, for the supply of drugs to the municipal infectious-diseases hospital has been accepted by the Public Health Committee of Belfast Corporation.

Boileau & Boyd, Ltd., Dublin, have written to the Tullamore Board of Guardians claiming 7s. 6d. in respect of the increased price of drugs ordered owing to the war. The Clerk said that claims amounting in all to 3l. had already been paid on account of the increased cost of drugs since the war broke out.

The Cork Chemical and Drug Co. have been declared contractors to the Bantry Board of Guardians for drugs at 25 per cent. discount, and Fielding's Pharmacy for appliances at 22½ per cent. S. Connor & Sons have obtained the contract for the supply of drugs to the Dungannon Board of Guardians. The Tuam Guardians have allotted the contract for medicines to Boileau & Boyd, Ltd., at 233 per cent. discount, and for appliances Adamson & Co. at 20 per cent. discount.

Scottish News.

Subscribers are invited to send to the Editor newspapers con-taining matters of trade interest. The items should be indicated.

Aberdeen and the North.

Mr. Charles S. Geddes, chemist and druggist, Aberchirder, has been appointed President of the local Bowling Club for the ensuing year.

Mr. George Duncan, chemist and druggist, Dufftown, has secured the contract for the supply of drugs to the Upper Banffshire Isolation Hospital for three months.

There is quite an epidemic of influenza in town at present, and colds are very prevalent. Business is reported to be exceptionally good, Insurance work, as usual, being predominant.

In the recent University Graduation Lists are the names of D. W. Berry, son of the late A. Wales Berry, chemist and druggist, Aberdeen, and J. A. Innes, son of Dr. John Innes (a former local chemist). Both have passed the Final examinations in Medicine.

At the recent monthly meeting of the Fraserburgh Parish Council a letter was read from Mr. J. H. Low, Secretary of the local Chemists' Association, stating that on account of the increased cost of drugs and allied products the Association suggested that the discount of 20 per cent. on drugs supplied to the Council be reduced to 10 per cent., and that the 10 per cent. discount on dressings be cancelled and these articles charged net, these terms to apply to accounts since October 1914; and that prices for the next six months be based on prices current in the drug-market. The Council agreed to the contracts with the chemists being amended according to the terms proposed.

Edinburgh.

Several shops in the city have had outside electric globes removed by thieves during the night.

Mr. W. L. Edward, chemist and druggist, has been appointed a captain of the High Constables of Edinburgh, Ward No. 6.

Mr. James L. Ewing, LL.D., Chairman of the local Chamber of Commerce, presented the certificates and prizes to the successful students at the closing of some of the

evening continuation classes. The Council of the Society of Chemical Industry has sanctioned the formation of an Edinburgh and East of Scotland Section. The inaugural meeting is to be held on April 14, when the President, Professor G. G. Henderson (Glasgow), will preside. Professor James Walker, F.R.S., is to be nominated as first Chairman of the Section, and among the names appearing on the nomination-paper are those of Mr. D. B. Dott, Dr. J. F. Tocher, and Dr. Watt (T. & H. Smith, Ltd.). Dr. James P. Longstaff, of the Chemical Department of Edinburgh University, will undertake the duties of Secretary of the new Section.

Several coast chemists have been notified that their assistants are shortly to leave pharmacy for the ranks of the R.A.M.C.

A special meeting of Fife panel chemists was held in Kirkcaldy last week, when the following motion was agreed to:

That Fife County panel chemists cannot see their way to continue on the panel later than June, unless they receive a guarantee that their accounts will be paid. Copies of the resolution have been issued to all chemists Falkirk.

Falkirk chemists have this week commenced to close at 8 P.M. every evening excepting Saturdays (10.30 P.M.). The half-holiday is, as hitherto, on Wednesday (from

The Kelp-industry in the Highlands.

At a meeting of Inverness County Council on April 2, Sir James Patten MacDougall, Convener of the County Council of Argyll, wrote regarding an interview he had had with the chairman of the British Chemical Co., Clydebank, Glasgow, on the suggested revival of the kelp-industry in the Highlands. The company will be prepared to take any amount of kelp, and to pay much more for it than they had done in the past, so long, at least, as the war lasts. It was also explained that the company had experienced great difficulty in extending its trading from the reluctance of the islands population to recover seaweed, and the company lost heavily over the construction of retorts in North Uist and Tiree. In order to foster operations on such an island as Barra, where the possibilities are great, the company is prepared to advance about 1,000*l*. for the erection of a funicular or other railway to bring the seaweed up from the shore to the drying-sheds, provided a similar amount of public money is forthcoming. In 1914 the company paid South Uist people 3,700. for kelp and tangle ash sent by them to their factory in Glasgow. Formerly there were twenty firms in Scotland interested and engaged in the production of iodine. Now there are only two. The Mackintosh said the letter showed what could be done if the industry is revived and the people gather seaweed and treat it. Two members were appointed to act with the Argyll Committee so as speedily to push on the movement for the revival of the industry.

Successful Students.

At the Glasgow School of Pharmacy on March 31 the prizes for the session were distributed by Mr. W. L. Currie, To commemorate the first year of his principalship, Mr. M. M. Irvine (successor to Mr. John Lothian) had offered a series of prizes, which were awarded as follows: First (10\). 10s.), Margaret Brownlie, Wm. Alexander, and James Banks; second (5\)/. 5s.), Barbara Stewart, Wm. Peebles, and Syd. F. Murison; third (3\)/. 5s.), Cecilia Reid, Peter Duff, and Dougald Lindsay. The Kinninmont medals for the last two examinations were presented at the same time to Mark Davies and Frank Arthur, jun. A second prize (value 3\)/. Was given at the last examination, and this was won by Joseph Hunter. All the prizewinners were students of the Glasgow School of Pharmacy. In the course of his introductory remarks, the Principal narrated the results achieved by the School during the last two years, and his proudest record was that of twenty-two recent students nine had joined the R.A.M.C. and thirteen had enlisted in various fighting units. Mr. Currie presented the prizes, and his inspiring remarks on unity of purpose and co-ordinated effort spiring remarks on unity of purpose and co-ordinated effort were greatly appreciated.

French News.

(From the "C. & D." Paris Correspondent.)

MADAME CURIE, who is actively engaged in the practice of radiography in the French military hospitals, met with a motor-car accident on April 6, when returning to Paris from Forges, near Montereau. The car was overturned, but Mme. Curie escaped serious injury.

KAOLIN FOR DYSENTERY.—Professor Albert Robin states that the medical treatment of dysentery in armies in the field is often handicapped by the insufficient staff of ambulances and the fact that their pharmacies are generally poorly provided with medicaments. He recommends the mixture of kaolin 94, powdered gum acacia 5, and powdered tragacanth 1, which was used with success in the Balkan campaign. A tablespoonful of this mixed with water is to be taken several times a day, up to 200 grams. [This remedy is now being used by the Austro-Hungarians.—Editor.]

MILITARY BIOLOGY.—The ten "military biological laboratories" of which M. Marty announced the founda-

on the panel.

tion to the Paris Society of Pharmacy (see C. & D., March 6, p. 41) are also bacteriological and chemical. Each has its military pharmaeist as well as an army surgeon. M. Malméjac is the pharmaeist-major attached to the laboratory of the First Army, M. Lemithouard to the Second, M. Comte to the Third, M. Ebren to the Fourth, M. Peeker to the Fifth, M. Appoix to the Sixth, M. Javillier (in civil life Professor of Pharmaey and Materia Medica at Tours) to the Seventh, and M. Launois to the Eighth. M. Bréteau and M. Pastureau, first-elass pharmacist-majors, are attached to the principal headquarters laboratory.

Obituary.

M. Pierre Eugène Thibault, whose death is reported, was a well-known Parisian practitioner who long "kept open shop" in the Boulevard St. Michel. In 1881 he commenced his career as house pharmacist in a Parisian hospital, in 1884 he qualified, and in 1902 he took his degree of doctor of pharmacy with a "Study of the Officinal Preparations of Pepsin as Inscribed in the 1884 Codex." The suggestions embodied in this thesis were adopted by the 1908 French Codex Revision Committee. He was a member of the Society of Pharmacy from 1903, and an occasional but valued contributor to the "Journal de Pharmacie." He should not be confounded with M. Thibault, whose pharmacy is in the rue des Petits Champs, and who is also a member of the Paris Society.

Dr. Morel, first-class pharmacist-major of the French army, who died recently at the age of seventy, was a survivor of the students of Strassburg. He took his diploma at the old School of Pharmacy there when the city was still French; he spent some years at the Military Service

at the old School of Pharmacy there when the city was still French; he spent some years at the Military Service Sanitary School, and was ardently hoping to revisit the seenes of his youth and see Alsace once more under the French flag, when he was striken down by his last illness. He had long served in Algeria, but in 1897 left the army and settled just outside Paris, at Levallois-Perret, where he resided until his recent death. He was an Officer of the Legion of Hopour

Legion of Honour.

M. Ludovic Monteleon, whose funeral at Clermont-M. Ludovic Monteleon, whose funeral at Clermont-Ferrand was largely attended by pharmacists and others, was the oldest pharmacist in the old cathedral city of Auvergne. After studying in Paris, he acquired Gauthier-Duché's officine at Clermont, and for half a century held the establishment, "forming apprentices" (as an orator at his graveside put it) "in his own image, with those principles of severe morality and serupulous honesty indispensable in a profession which, above all, depends on the conscience of its practicants." He remained at his post to the last, though his health was finally shattered by the death of his only son, who fell under the French flag in a far distant land. distant land.

I also learn of the death of M. Odin, formerly pharmacist and for some time Mayor of the interesting little seaside town of Sables d'Olonne (Vendée). He was a member of the Board of Supervision of the Pharmacie Centrale de France. He founded and managed (at Sables d'Olonne) a laboratory for the proporation of sea-water for d'Olonne) a laboratory for the preparation of sea-water for

therapeutical purposes.

India and the East.

(From the "C. & D." Correspondents.)

A Cocaine Haul.—At the Bombay Police Court, Nayaran Mulji, a Hindu, was charged with being in possession of 35,850 grains of cocaine, valued at Rs. 13,445, without a licence. The case was adjourned.

SALE OF OPIUM IN CEYLON.—The Government "Gazette" announces that the Governor in the Executive Council has amended the opium ordinance by increasing the price at which the drug shall be sold for cating from Rs. 3.29 per oz. to Rs. 4.37, and for smoking from Rs. 4.38 to Rs. 8.75 per oz. The revenue derived by the Colony from sales in the financial year 1912-13 was Rs. 604,540, and in the previous year Rs. 615,208.

TRADING LICENCES.—The Commerce Department at Delhi notifies that the Bayer Co., the Badische Co., Mcister, Lucius & Brüning, Ltd., and Heine & Co. have been granted trading licences until August 4, 1915; also Volkart Bros. (so far as their agency of the Berlin Aniline Co. is concerned). Among those who have been granted licences to continue business so long as the Trading Order is in force are the Santogen Co. and Volkart Bros. Over seventy German and Austrian firms are concerned in the above measures. measures.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

DRUGS, CHEMICALS, AND APOTHECARIES' WARES to the value of 65,591*l*. were imported into the Union during January, compared with 77,663*l*. in January 1914. Medicinal preparations fell from 10,005*l*. to 5,763*l*. and apothecaries' wares from 14,145*l*. to 8,366*l*.; disinfectants were 3,499*l*., against 4,277*l*. Caustic soda increased from 281,142 lb. to 546.013 lb. 564,013 lb.

Cape Province.

STOCKS of some lines are still very scarce in the city and Province; in fact, it is impossible to obtain supplies of many articles. This applies particularly to patent medicines of German manufacture. With regard to English goods, the shortages will as time goes by be remedied, each mail relieving the situation somewhat.

MR. DAVIDSON, manager of Messrs. Hopkins & Co.'s branch-shop in Victoria Road, Woodstock, is, together with Mrs. Davidson, proceeding to England on a six-months' holiday. They leave Cape Town by the s.s. Italian on April 26. Mr. J. Austin Thomas will take charge of the branch during Mr. Davidson's absence.

INCREASED IMPORT-DUTIES.—In his Budget speech, delivered to the House of Assembly on March 18, the Minister of Defence (General Smuts) stated that a deficit of 2,700,004 has to be provided for, and among the increased taxation proposed are the following items:

Coffee, increased from $\frac{3}{4}d$. to $1\frac{1}{2}d$. per lb.

Tea, increased from 4d. to 5d. per lb. for bulk, and from 5d. to 7d. for smaller packages.

Paraffin oil, increased from 1d. to 3d. per gal.
Sugar, new Excise-duty of 1l. per ton.
The duties on beer are to be slightly increased, but wine

and spirit dutics are to remain as they are.

and spirit duties are to remain as they are.

Pharmaceutical Society.—A Council-meeting was held at the Society's Rooms, 65 Hout Street, Cape Town, on March 18. There were present Messrs. J. Sloan (President), J. Dell and G. R. Cleghorn (Vice-Presidents), Froembling. Ph.D., Edmeades, Sowden, Hill, Austin Thomas, and Aitken (Hon. Secretary). The following were elected country Councillors: Messrs. G. Bacon (Uitenhage), Engels (Paarl), G. Michall (Robertson), E. S. McKenzie (Qucenstown), and J. Parry (Kimberley). It was decided that country Councillors be advised that they are entitled to attend any Councilmeetings and take part in discusthat country Councillors be advised that they are entitled to attend any Council-meetings and take part in discussions, also to vote on any question. Mr. Edmeades (Hon. Treasurer) read his report, which showed that the Society is in a flourishing condition. A full statement will appear in the annual report, which will be issued soon. A letter was read from Mr. W. H. Gardner Hopkins, notifying the Council of his resignation as a member of the Council, owing to ill-health. His resignation was accepted with regret. The following letter, received from the Colonial Medical Council, was in reply to a protest made by the Society at the action of the City Council supplying ant-poison:

Re Sale of Ant-poison.

SIR.—With reference to your letter of the 24th October last, I am directed to state that the Council learns that the distribution of ant-poison by the City Council is regulated as follows:

1. The poison is supplied by the Health Department in special blue poison-bottles, labelled "Ant-poison."

2. A register is kept in which the date of issue and name and address of the person to whom poison is issued are entered.

3. The person to whom the poison is issued signs the register,

4. No poison is issued to any person under the age of eighteen years.

The precautions should, in the opinion of the Council, be The precautions should, in the special sufficient to protect the public interest.

I am, yours faithfully,

W. G. Murray (Secretary).

There being no further business, the meeting terminated. Natal.

NATAL PHARMACEUTICAL SOCIETY.—A meeting was held at NATAL PHARMACEUTICAL SOCIETY.—A meeting was field at the rooms of Mr. G. Stuart Jones, Durban, on March 4, at 8.15 p.m. Present: Messrs. Stranack (Chairman), Dunkerton, Walton, Gale, Cooper, Johnston, Jones, Murray, and Goodbrand (Hon. Secretary). On the motion of Mr. Jones, seconded by Mr. Johnston, Mr. Seneque (Durban) was elected a member of the Society. The Hon. Secretary was empowered to make arrangements with the publishers was empowered to make arrangements with the publishers of The Chemist and Druggist whereby the duty on the Diaries might be prepaid in England by the Society.

New Customs-duties.—Increases in the Customs-duties of a number of articles came into force on March 5. Chemists are chiefly affected by Item 193, which states that "all goods, wools, and merchandise not charged with duty, and not enumerated in the free list, and not prohibited to be imported into the Union," shall bear a duty of 20 per cent. ad valorem, which is an increase of 5 per cent. on the present duty. This affects practically all apothecary-ware or sundries. Other duties of interest are: Oils, mineral, illuminating and burning, 3d. (formerly 1d.) per gal.; sugar, candy, loaf, caster, icing, and cube, 6s. (formerly 5s.) per 100 lb.; sugar, other kinds, including golden and maple syrup, molasses, saccharum, glucose, and treacle, 4s. 6d. (formerly 3s. 6d.) per 100 lb. (There is also an Excise-duty of 1s. per 100 lb. noted.)

Durban Chemists' Association.—The annual meeting of

OT 18. per 100 lb. noted.)

DURBAN CHEMISTS' ASSOCIATION.—The annual meeting of this Association was held in Durban on March 4, Mr. G. Stuart Jones (President) in the chair. The Chairman, in his address, said the Association had justified their claim to existence, and had done good work during the year. The first serious work they had undertaken was contract dispensing for Sick-fund and Friendly Societies, but their efforts to control the dispensing had not had the success they anticipated. They had welcomed during the year Mr. Blake Jardine, Secretary of the P.A.T.A. at Cape Town. Certain support was promised his Association, but was not maintained owing to a misunderstanding. Regarding Sunday trading, all photographic dealers had given their word of honour not to sell photographic goods on Sundays. Sunday trading, all photographic dealers had given their word of honour not to sell photographic goods on Sundays. He returned thanks for the support given him during his term of office. Mr. Johnston, in moving the adoption of the report, proposed a vote of thanks to the President, Secretary, and Auditor for the able manner in which they secretary, and Auditor for the able manner in which they had carried out their various duties. Officers for 1915 were elected as follows: President, Mr. G. Stuart Jones; Vice-President, Mr. Fleming Johnston; Committee, Messrs. Dunkerton and Gale; Auditor, Mr. F. Firth; Hon. Secretary, Mr. W. H. Goodbrand. It was agreed that the present Price-list Committee be re-elected, with the addition of the Chairman as an ex-officio member. Mr. E. B. Dunkerton reported that he had met the Committee of the P.A.T.A. while in Cane Town, and explained the position to them ton reported that he had met the Committee of the P.A.T.A. while in Cape Town, and explained the position to them. After a long talk with the Committee, he had become convinced of the necessity of a P.A.T.A. in South Africa. In Durban they had no need of it at present, as the Price-list was working admirably, but they had to think of the future. He thought they might have a representative in Cape Town who would watch their interests, and to whom they could refer in any difficulty. Mr. Fleming Johnston, who had also been at the meeting in Cape Town, said that although there were not many manufacturers represented who had also been at the meeting in Cape Town, said that although there were not many manufacturers represented on the P.A.T.A., many more of the better-known would join if the Association was backed up by the retailers. Another reason why manufacturers would not join was that the P.A.T.A. expected too much profit for the retailer. Their Association had similar aims, and he thought they might give up the Durban Chemists' Association and join the P.A.T.A., as many chemists would not wish to pay three subscriptions, including one to the Natal Pharmaceutical the P.A.T.A., as many chemists would not wish to pay three subscriptions, including one to the Natal Pharmaceutical Society. Mr. Jones suggested that the Secretary in Cape Town be requested to forward copies of the Constitution of the P.A.T.A. to Durban chemists. Mr. Dunkerton proposed that a representative in Cape Town be appointed at once to gather information for them. Mr. Fleming Johnston thought that by doing so they might be committing themselves. He asked for authorisation to interview chemists as to the advisability of joining the P.A.T.A. It was resolved, on the proposition of Mr. Murray, that Mr. Johnston's offer be accepted, and that he report at a future meeting.

A SUBSCRIBER sends us the original of the following engraving. The black spots were red ink, put there by him. The advertisement was published in the "Natal Mercury." Comment would be superfluous to our readers:



Legal Reports.

Trade Law.

Kephaldol, Ltd., v. Shadforth.—This action has been settled by the defendant paying 1001. damages, instead of 1,0001. asked, and tendering an apology, for stating crroneously that "Kephaldol" is a German proprietary

Cream of Tartar.—At Woking on March 27, a summons under Section 6 of the Sale of Food and Drugs Act, 1875, against the Woking Co-operative Society for selling calcium acid phosphate as cream of tartar was dismissed upon defendants paying one guinea costs. The defence was that the phosphate had been sent from the warehouse in error.

Medicine-stamp Acts.—At Leicester Borough Police Court on March 31, Edmund William Dart, 139 Belgrave Gate, Leicester, was summoned, at the instance of the Commissioners of Customs and Excise, for selling and exposing for sale dutiable medicines without being licensed; also for selling unstamped "back and kidney pills," "wind and indigestion pills," "phos tonic," and "lung tonic." Defendant pleaded guilty to the two offences in respect of the pills, but said the tonics were not patent medicines. Mr. J. W. Grisdale, Customs and Excise officer, stated that several complaints were received about the defendant. The various articles mentioned were handed up to the Magistrates, whose chairman was Sir William Vincent. The defendant said he wanted to get an honest living, and when he started out in business he obtained a copy of the British Medical Association's "Seeret Remedies." The Chairman: We don't want to hear a long history as to how you invented your quack medicines. This is a particular offence for which you have to answer. Defendant then complained that the Revenue authorities would not give him any information about the law. The Chairman: You don't expect them to, do you? Defendant said if he had a licence he could not sell the medicines in the market-place as he was doing. The Chairman: Then you are selling without a licence? Defendant: I sell this [holding up a leaflet], and give the articles with it. After further remarks, the Chairman said it was quite evident that defendant had not acted in ignorance, and if he had not been imposed. He would be fined 51. in respect of the first offence, and 21. 10s. in each of the other four cases.

Restrictive Agreements.—On March 31 the Court of Appeal dismissed the appeal of Herbert Morris, Ltd., Medicine-stamp Acts. - At Leicester Borough Police Court on March 31, Edmund William Dart, 139 Belgrave

Restrictive Agreements.—On March 31 the Court of Appeal dismissed the appeal of Herbert Morris, Ltd., engineers, Loughborough, against the judgment of Mr. Justice Sargant dismissing their action to restrict a former engineers, Loughborough, against the judgment of Mr. Justice Sargant dismissing their action to restrict a former apprentice and employé, who had covenanted that he would not at any time during a period of seven years from the date of his ceasing to be employed by the plaintiffs carry on or be concerned in the sale or manufacture of pulley-blocks, hand overhead railways, electric overhead railways, hand overhead travelling cranes, or be concerned in any business connected with such sale or manufacture. He had done so, and Mr. Justice Sargant had considered seven years' restraint practically a lifetime, for during that period he would have to get his living at some other trade, and could not hope at the expiration to be taken back into his original employment. Therefore he refused the injunction asked for. The Master of the Rolls, in upholding this judgment, said it has been laid down by the highest authority that a covenant is not good if it imposes a greater restraint than is reasonably required for the protection of the covenantee. He thought that regard must be had also to the interest of the covenantor. In his opinion, there is a great deal of authority against the plaintiffs' proposition that no distinction has to be drawn between covenants in a contract of service and covenants on a sale of the goodwill of a business. There are at least three classes of cases which might require separate treatment—namely:

(1) A trade secret may justly be protected by an absolute covenant without limit as to time or space.

(2) The vendor of goodwill ought not to be allowed to derogate from his own grant, and a wide restriction may properly be given to protect the enjoyment by the purchaser of that which the vendor has sold.

properly be given to protect the enjoyment by the purchaser of that which the vendor has sold.

(3) In a contract of service there is less freedom of negotiation, and a far greater risk of oppression, and the Court ought to guard more carefully the interests of the eovenantor.

In the present case the defendant made the agreement after ten years in the employment of the plaintiff company. and he could not think it reasonable to require him to put aside all the skill and experience acquired during those ten years and to begin life afresh. Mr. Justice Joyee concurred, but Lord Justice Phillimore dissented.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

VULCAN DENTAL MANUFACTURING Co., LTD. (P C.).—Capital 5,000%, in 1%, shares. The first directors are M. Haynes and A. H. Browne. R.O., 4 Finsbury Square, London, E.C.

Samuel Shelley, Ltd. (P.C.).—Capital 5001., in 11. shares. Objects: To take over the business of a drug-stores carried on by S. Shelley at Market Place, Bilston, Staffs, as "Shelley's." The first directors are S. Shelley and A. D. Pogson.

BAIRD & TATLOCK, LTD. (P.C.).—Capital 15,000%, in 1/shares. Objects: To acquire and carry on the business of Baird & Tatlock, scientific-instrument makers, laboratory furnishers, and chemical dealers, Glasgow, Edinburgh, furnishers, and chemical dealers, Glasgow, Manchester, and Liverpool.

MARTIN MANUFACTURING Co., LTD. (P.C.).—Capital 3,0001., MARTIN MANUFACTURING Co., LTD. (P.C.).—Capital 3,000l., in 1l. shares. Objects: To acquire and carry on the business of manufacturers of and dealers in druggists' and grocers' sundries, opticians, etc., carried on at Roe Street. Belfast, as the "Martin Manufacturing Co." The first directors are W. R. Moss, Miss R. Moss, and F. A. Moss. R.O., 29 Roe Street, Belfast.

Births.

Authenticated notices are inserted without charge.

ELLIS. At 1 Harleyford Road, Vauxhall, London, S.E., the wife of Frederick Ellis, chemist and druggist, of a

HORNE.—At the Dispensary, Bourton-on-the-Water (Glos.), on March 23, the wife of Percy Horne, chemist and optician, of a son.

MILLNER.-At San Remo, 12 Muncaster Road, Clapham Common, London, S.W., on April 3, the wife of Alfred Millner (Saugers) of a son.

Marriages.

Authenticated notices are inserted without charge.

CARSON—CRANSHAW.—At Bingley Parish Church, by the Rev. R. Pulleine, M.A., Robert William Carson, chemist and druggist, elder son of Mr. Robert Carson, chemist and druggist, Bradford, to Florence Mary Cranshaw, Bingley, claughter of the late Amos Cranshaw, Tyldesley.

Gorst-Watson.—At the Parish Church, Aldborough, by the Rev. W. Robinson, on Apr. 3, William Gorst, chemist and druggist, of Bate & Gorst, pharmacists, Market Street, Lancaster, to Florence, eldest daughter of Mr. A. Watson, Tvy House, Aldborough, near Boroughbridge, Yorkshire.

Silver Wedding.

CURTIS—SNELL—At George Street Chapel, Plymouth, by the Rev. Samuel Vinceut, on April 7, 1890, Harry Edwin Curtis, chemist and druggist, Hastings, to Caroline Louisa, clder daughter of the late William Snell, of Kidderminster.

Deaths.

Authenticated notices are inserted without charge.

Anderson.—At 99 Moorside Street, Droylsden, Man-chester, on March 29, Mr. Henry Anderson, chemist and druggist, aged thirty.

BECKWITH.—At Fort Pitt Hospital, Chatham, on March 26, A. E. Beckwith, 5th Middlesex Regiment, cldest son of Mr. A. F. Beckwith, Ph.C., 105 Effingham Road, Harringay, N.

Berridge.—At Bournemouth, recently, Mr. Charles Berridge, of Berridge Bros., drug-merchants, Albert Street,

CLIFTON.—At 4 Hamilton Street, Bury (Lancs), March 30, Mr. George Frederick Clifton, chemist and druggist, aged seventy-six. Mr. Clifton served his apprenticeship in Bury with the late William Warhurst, chemist and druggist, whom he succeeded in business.

Hall.—At Charing Cross Hospital, London, following an operation, on March 29, Mr. Ephraim Hall, chemist and druggist, Luton, aged seventy-three. Mr. Hall was a native of Bow Brickhill, and in early life was employed in two

Luton pharmacies. Subsequently he started a business in High Town, Luton, and later purchased a pharmacy in George Street. He was prominently associated with the Liberal and Baptist causes in Luton. He is survived by a widow and seven children.

HARGREAVES.—At Farnworth, Widnes, on April 5, Mr. James Hargreaves, F.C.S., aged eighty. Mr. Hargreaves was one of the most accomplished of English alkali-makers and the co-inventor of the Hargreaves-Bird electrolyticalkali process. He was a native of Hoarstones, Pendle Forest, and was for many years associated with the late Mr. William Gossage, of Widnes, in whose works he practically revolutionized soapmaking by discovering a method tically revolutionised soap-making by discovering a method by which brown soap (then in universal use) could be bleached to an attractive whiteness. In his process for the production of alkali and chlorine direct from salt by an electrolytic process he was assisted by the late Thomas Bird, and the process is worked at Middlewich, Cheshire, and also by companies in France, Sweden, Austria, and

HOYLE.—At Clitheroe, on April 3, Mr. James Giles Hoyle, chemist and druggist, aged sixty-nine. Mr. Hoyle served his apprenticeship as a pharmacist with Mr. Foster, Castle Street, Clitheroe, and for over thirty years was manager of Mr. Brown's pharmacy in Clitheroe, after which he commenced business on his own account. He was one of Clitheroe's best hours tradesmen Clitherce's best-known tradesmen.

Ives.—At Norwich, on March 27, Mr. R. H. Ives, dispenser at the Norwich Infirmary.

JOHNSON.—At 6 Grange Road, Newburn-on-Tyne, on March 25, Marie Isobel, younger daughter of Mr. Herbert Johnson, chemist and pharmacist, aged thirteen months.

LEWIS.—At 6 Meadowbank Crescent, Edinburgh, on March 17, Mr. Robert Oakeley Lewis, aged eighty-nine. Mr. Lewis was a well-known commercial traveller in Edinburgh, having represented, among others, Bleasdale, Bell & Clark, York, and J. Woolley, Sons & Co., Ltd., Manchester.

RAYSON.-On March 28, Mr. George Knights Rayson chemist and druggist, Commercial Road, Lowestoft, aged seventy-three. Mr. Rayson had been in business at Lowestoft for a long period, and was held in high esteem. He is survived by a widow and one son, who is in Africa.

WITT.—At Berlin, on March 23, suddenly, Professor Otto Nikolaus Witt. Ph.D., F.C.S., of the Berlin Technical

Academy, aged sixty-two. Professor Witt was one of best-known representatives of German ehemical technology, and as such presided over the International Congress of Applied Chemistry which was held in Berlin in 1903. He was born in St. Petersburg on March 31, 1853, and received his scientific and received his scientific education in the Polytechnic School, Zürich, graduating as Ph.D. in the Zürich University. After two years' work in a Swiss calico-factory and in German ironworks, he came to England and worked in an aniline-fac-



worked in an aniline-lactory near Londor. While here he was, in 1876, elected a Fellow of the Chemical Society, to which he communicated papers dealing with his researches. After leaving London he was engaged at Frankfurt in Cassella's aniline-dye works. In 1896 he was appointed professor at Charlottenburg. Professor Witt was a pure of magnificent physique, a salendid speaker in was appointed professor at Charlottenburg. Frofessor with was a man of magnificent physique, a splendid speaker in several languages, and since the war broke out he had most strenuously applied himself to helping his country by advice and pen in the solution of her chemical difficulties. He was a Prassian Pr.vy Councillor, and an Anglophobe.

Turney.—On April 4, Mr. Samuel Blandford Turney, Ph.C., of Plymouth, aged eighty-five. Mr. Turney was born in London, and was apprenticed to Mr. W. V. Matthews, chemist, Ycovil, in 1844. In 1852 he commenced business on his own account in Cambridge, and in 1860 acquired the business of Baker Bros. Union Street, Plymouth, originally established by the late George Mennie, J.P. In 1903 he transferred this business and the branch at Bodmin to his three sons. Mr. Turney was one of the oldest pharmaceutical chemists, his certificate being dated July 1, 1852. He took a leading part in the meeting of

the British Pharmaecutical Conference at Plymouth in 1877, and renewed Conference friendships at the last Conference held at Plymouth in 1899. He is survived by one daughter and three sons.

WHITE.—At Tranmore, Ireland, on March 26, Mr. Joseph Terencc White, L.A.H. Dublin. Mr. White was formerly in business as an apothecary at Waterford, of which city he was an alderman. Latterly he has been in failing health.

Trade Notes.

TOILET LANGLINE is the special line advertised this week y Thomas Christy & Co., Old Swan Lanc, London, E.C. EVANS SONS LESCHER & WEBB, LTD.—The warrants for the half-year's dividend on preference shares, due April 1,

1915, have been posted.

AMERICAN BOTTLES.—Hertz & Co., 9 Mincing Lane, London, E.C., inform us that they have received a consignment of American bottles for medicinal and drug-trade uses. Samples are on show at the company's offices.

Samples are on show at the company's offices.

SILICA, which finds many uses in the arts, is obtained in the neighbourhood of London. The Lineoln Mineral Co., Ltd., Point Pleasant, Wandsworth, London, S.W., advertise in this issue their product from Thames pits.

PACKED TOILET-PREPARATIONS.—William Toogood, Ltd., 77 Southwark Street, London, S.E., pack a special line of toilet-preparations in eollapsible tubes, some of which are referred to in their advertisement in this week's issue.

DAYLIGHT SAVING.—The Indo-Burma Co., Ltd., Wool Exchange, Basinghall Street, London, E.C., intimate that from April 12 to September 30 their office hours will be from 8 a.m. to 5 p.m., and on Saturdays from 8 a.m. to 12 noon. 12 noon.

SUNDRIES LIST.—The April Supplement to the Price-list of May, Roberts & Co., Ltd., 7, 9, and 11 Clerkenwell Road, London, E.C., has been published this week. Those who have not received a copy can do so by sending a postcard

request.
"Evans' Journal." for April, which is published by Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, is now available, and any chemist can obtain a copy gratis on application. The titles of the articles contained in the

ssue are mentioned in an advertisement in this number.

Scales and Weights.—W. & T. Avery, Ltd., Soho Foundry, Birmingham, refer in their advertisement in this issue to the scales and weights which they manufacture especially for chemists' use. Metric weights to meet the requirements of the new Pharmacopeia can be supplied from steels. from stock.

RUSSIAN TRADE.—Wladyslaw, Hoffmann & Co., 27 Canal Catherine, Petrograd, are buyers of pharmaeeutical and chemical products, and also exporters of various drugs of Russian origin. Those firms who desire to cultivate trade with our Allics should note the advertisement of this business

with our Aines should note the advertisement of this business house in this issue.

ESSENTIAL OILS.—Magnus, Mabee & Reynard, Inc., 257 Pearl Street, New York City, U.S.A., offer for sale a line of essential oils which they are in an unequalled position to supply. These are mostly of American origin. The company also deal in vanilla-beans, and in drugs and the reliable governily.

chemicals generally.

EAU DE BOLOGNE is the name which Mr. John Lorimer, 119 Finsbury Pavement, London, E.C., applies to a British-made perfume for use in place of the German eau de Cologne. made perfume for use in place of the German eau de Cologne. The name is Mr. Lorimer's invention, and is intended to remove the suspicion that the product is of German origin. It is in fact "All British," as the advertisement in this issue emphasises. The product is put up with a distinctive label, and bears Mr. Lorimer's maple-leaf trade-mark in red. We are informed that the perfume is being supplied to London hospitals where military officers are under treatment. This will test the perfume, and also make it better known—a reason why chemists should stock it to meet the presentive demand.

the prospective demand.

"The Dawn of a New Era" is the title of an attractive pamphlet issued by the United Chemists' Association, Ltd., Priory Court, Cheltenham Spa. It describes the origin, principles, and progress of this co-operative pharmacy business. from the state progress of this co-operative pharmacy dustriess in a series of essayettes, and concludes with an appeal for support. Portraits of the directors and a sketch of the works are included. Any chemist who would like to see the pamphlet can get a copy by writing to the above address.—At a meeting of the Cheltenham Corporation on Tuesday acknowledgment was made of the enterprise of the Association in handling and distributing the town's concentrated waters. During the month they sold 1.380 bottles, compared with 210 last year, when the undertaking was in the hands of the Convention. the hands of the Corporation.

URO-HEXOIDS.—This name has been adopted by The British Drug Houses, Ltd., Graham Street, City Road, London, N., for the urinary tablets, and has been protected by registration. The price has been revised so as to allow a larger profit to the chemist, and the retail price has been fixed at 1s. 9d. Uro-hexoids are tablets of hexamine and lithium benzoate, and are packed in bottles enclosed in cartons. These tablets are intended to replace the German proprietary "Cystopurin," upon which they are an improvement. Another "B.D.H." special line is the charges for earbonic-acid baths, made of fused acid sulphate and alkaline carbonate by the Sandow expired patent. With these tablets the effervescent tonic-baths are prepared as used in the Nauheim treatment. The box, containing as used in the Nauheim treatment. The box, containing eight tablets of acid sulphate and four packets of alkali, sells at 1s. 6d. The method of packing these is shown in the advertisement in this issue.

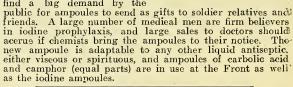
sells at 18. od. The method of packing these is shown in the advertisement in this issue.

Bettering Business is much talked about just now among specialists in advertising and publicity, but the proprietors of Wright's coal-tar soap (Wright, Layman & Umney, Ltd., Southwark, S.E.) are not in that rut: they are doing it, not talking about it. Many chemists in the Metropolis have been exhibiting as an advertisement for the soap a faithful replica of the British Army airship made by the British Aircraft Co., the model being complete with engine, working propellers, and bombs. They are most attractive, and can be obtained on loan from Wright, Layman & Umney. Another and quite novel form of advertising on railway tickets has also been started. The novelty consists in a combination of art, wisdom, and wit. The back of each ticket bears a sketch, by John Hassall, of a youngster, in every instance attractive and calculated to raise a smile—e.g., a nice little boy in a kilt suit with big Wee Macgregor bonnet, who tells the ticket-holder, "Nae! Nae! Mae in ther says she wull hae naethin' but Wright's coaltar soap." By Hassall poster the public are told: "Look at the back of your ticket," and "It's a pity to puncture the Picture." The scheme is the smartest bit of toilet-soap advertising of the present time, and it is bettering the business of all who deal in Wright's coal-tar soap, simultaneously laying the foundation of a new cult of collectors.

New Iodine Ampoules.—The annexed engraving illustrates a new form of ampoule for tingtweet of civiling which

NEW IODINE AMPOULES .- The annexed engraving illus-

Trates a new form of ampoule for tineture of iodine which. S. Maw, Son & Sons, Aldersgate Street, London, E.C., have recently patented. The novelty lies in the small twin bulb at the base of the main reservoir. When this little bulb is broken the contents of the ampoule just wet the fabrio which surrounds it, and the tincture does not drop away from the ampoule, being retained therein by capillary attraction. Messrs. Maw have been making this ampoule for some months for the British Red Cross Society and the War Office, who have absorbed three-quarters of a million of them, and still more are being supplied. The firm are now supplied. The firm are now in a position to supply them to chemists also in the form illustrated—i.e., cach ampoule enclosed in an aluminium enamelled tube, six of them being enclosed in a box, the price to ehemists being 2s. 6d. per dozen. A niee little showcard is supplied. The firm point out that ehemists will find a big demand by the find a big demand by the



ACTUAL SIZE

NAVAL PRIZES.—Robert Lyon & Co. will hold a two days public auction at the Law Association Sale-rooms, 14 Cook Street. Liverpool, on April 15 and 16, when a large quantity of miscellaneous goods will be offered, including 8 casks cod-liver oil, 15 cases gum mastich, 10 cases sanatogen or 1,440 tins, 110 cases boot-polish, 25 cases metal-polish, and over 40 packages of various "fine" chemicals.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts,

Discounting Discussed.

The second of the interviews between the Insurance Act authorities and pharmaceutical representatives in regard to Drug Fund questions took place at Wellington House, Buckingham Gate, S.W., on Tuesday, April 6, when the Right Hon. E. S. Montagu, M.P., Chancellor of the Duchy of Lancaster and Chairman of the National Insurance Commission, received a deputation arranged by the Pharmaceutical Society of Great Britain, which was introduced by Mr. W. S. Glyn-Jones, M.P. The first interview was with the Commissioners, and was about (1) expenses of Pharmaceutical Committees, (2) dispensing in rural areas, (3) delay in payment of chemists' accounts, and (4) stock mixtures. See C. & D., February 6, p. 43. The subject of this week's interview was, substantially, the losses which chemists in various areas have suffered owing to the Drug Fund being insufficient to pay their accounts. The deputation asked for an extra payment towards the deficiency. Mr. Montagu, in his reply, granted this request so far as allocating for the purpose a portion of Parliament's special grants of 60,000l., and at the same time he gave some particulars about squaring-up of 1913 and 1914 accounts. We append the report of the interview (with slight verbal alterations) submitted to the Pharmaceutical Council on Wednesday:

The members of the deputation were: The President (Mr. Edmund White), the Vice-President (Mr. E. T. Neathercoat), the Parliamentary Secretary (Mr. Glyn-Jones, M.P.), Mr. F. Pilkington Sargeant (Leeds), Mr. P. F. Rowsell, J.P. (Exeter), Mr. F. J. Gibson (Welverhampton), Mr. J. W. Deakin (Northwich), Mr. J. II. Cuff (Dover), Mr. Leo Joseph, J.P. (Cardiff), Mr. John Keall (London), Mr. J. W. Cussons (Dorchester), Mr. J. B. Francis (Wrexham), Mr. E. S. Waring (Nottingham), Mr. J. P. Gilmour (Glasgow), Mr. J. R. Hill (Edinburgh), Mr. A. J. Chater (London), and the Secretary and Registrar (Mr. W. J. Uglow Woolcock).

Mr. Glyn-Jones, in introducing the deputation, said that

Mr. Glyn-Jones, in introducing the deputation, said that it was thoroughly representative of the chemists who are doing work under the Insurance Acts. The Society had carried out to the best of their powers the suggestions made to them by Mr. Masterman when they met him in July, and the wished to make it plain that the Society and chemists generally are anxious so far as possible to make the system under the Acts work smoothly and successfully.

generally are anxious so far as possible to make the system under the Acts work smoothly and successfully.

Mr. Edmund White pointed out that on July 15 he had the opportunity of submitting to Mr. Masterman details of the critical position in which some chemists were placed owing to certain difficulties which had arisen in the first year of the working of the National Insurance Act. It was his duty, on that occasion, to point out that in some forty-six areas in Great Britain a deficiency had been experienced in the Drug Fund, ranging from 5 per cent. to 40 per cent., and that a serious situation had grown up as the result of this considerable discounting of the chemists' accounts Mr. Masterman, while fully appreciating the facts which were submitted to him, made it clear that no relief could even be eonsidered until the machinery provided by the Medical Benefit Regulations, particularly Article 40, had been put into operation. In effect, chemists were advised that steps should be taken in the over-spent areas to carry out the provisions of Article 40, so that the cause of the deficiencies might be ascertained. The Pharmaceutical Society immediately proceeded to convey this advice to the Pharmaceutical Committees in the areas concerned, and in November 1914 the investigations, so far as Pharmaceutical Committees were concerned, had been completed. A memorandum of the results was submitted to the Commissioners in January last. The position, therefore, is that the Society had carried out everything which they had been urged to undertake, and asked that some measure of relief should now be granted. Mr. Masterman stated that the Joint Committee had a small fund at their disposal to deal with abnormal conditions, and it was hoped that the Joint Committee hight utilise that fund for the purpose of relieving the effects of the discounts. Whatever may have been the intention of Article 40 of the Medical Benefit Regulations, it was not strong cnough to carry out what was contemplated.

The difficulties, the enormous labour, and the considerable expenses entailed on Pharmaccutical Committees in initiating investigations into the accounts, such as would make it possible for a reasoned statement to be submitted to the various Panel Committees, should also be borne in mind in connection with the losses associated with the deficits in the Drug Fund. Pharmacists realise the abnormal difficulties with which the Government is faced at the present moment, but they had fully borne their share of the sacrifices imposed upon every section of the community by the present conditions, and felt that they could look for some relief of their difficulties in connection with the National Insurance Acts.

THE MINISTERIAL STATEMENT.

In reply, Mr. Montagu expressed his pleasure at meeting a deputation representing the chemists, who had rendered such loyal assistance in promoting the successful working of Medical Benefit under the Acts. He referred briefly to what had passed at the deputation received by his predecessor in July, and reminded the deputation that the agreement into which the chemists had entered was a voluntary one, and that the payment of accounts under the Act was based on a Tariff, which had been voluntarily adopted by the Society and the chemists eoneerned. Since July the position had altered in certain respects. It was clear that the aggregate discounts for 1914 would be considerably larger than those for 1913. This was the ease in spite of the fact that the Pharmaceutical Committees, acting on the advice of the Society, had exerted themselves in areas where there appeared to be a prospect of a discount on the bills, in order to secure a scrutiny of prescriptions, with a view to effecting the imposition of a surchargo upon any doctor who had been responsible for extravagance. In addition, he understood that considerable uneasiness was felt at the delay that had occurred in making a final settlement of the accounts for 1914. Lastly, the Departmental Committee on the Drug Tariff, which was appointed by his predecessor, had made considerable progress with their work, and would, he hoped, report at an early date. He thought that the chemists would welcome an announcement on two distinct points—firstly, the arrangement proposed for securing a more speedy settlement of the accounts for 1914 than had been possible as regards 1913; and, secondly, as regards the action which it was proposed to take in view of the amount of the discounts at present affecting the bills both for 1913 and 1914.

As regards a settlement of accounts for 1914, Mr.

the bills both for 1913 and 1914.

As regards a settlement of accounts for 1914, Mr. Montagu pointed out that a special difficulty in ascertaining the number of persons entitled to Medical Benefit in any particular area had arisen in consequence of the number of insured persons who had joined his Majesty's Forces. He suggested, therefore, that if it were desired that an emergency settlement of the accounts for 1914 should be made at an early date it would be necessary to proceed on assumptions based on the general rate of enlistment over the country as a whole. In order to safeguard the interests of chemists, he would propose, in making this assumption, to take a figure slightly below the real average enlistment rate, and also to provide that where there was less enlistment in any Insurance Committee area than this assumed average rate (e.g., in armament-producing areas), the excess of the actual sums due to the chemists, when ascertained, over the sums resulting from the application of the average shall be credited to that area's Drug Fund for 1915. It would be open to any individual chemist either to choose an emergency settlement in the ordinary course. In the event of his accepting the emergency settlement, the following conditions would operate:

(1) If the amount accepted ultimately proved to be less than he would have got in the ordinary course, the difference would not go to him personally, but would be carried forward to the credit of the 1915 Drug Fund for his area.

his area.
(2) If the amount accepted ultimately proved to be more than he would have got in the ordinary course, he would not be asked to refund.

(3) He would be required, in signing his acceptance of the scheme, to give a formal discharge of all claims in respect of 1914.

As regards the discount on the bills for 1913 and 1914, Mr. Montagu stated that he had given very careful consideration to the position. He wished to make it clear that the existing Tariff was still under consideration by the Departmental Committee, and that it must not be assumed that in every case where the bills of a chemist were subject to any discount the chemist would necessarily have suffered loss. But he had come to the conclusion that

a case had been made out for some relief to be given to chemists whose bills had suffered a heavy discount, and he was therefore proposing to make available for the purpose of ex gratia payments on this account the Special Drug Fund, for which a sum of 60,000/. had been granted by Parliament in the two years in question. The details of the proposed scheme would be communicated to the Society, but he would take the present opportunity of making it clear that these payments must not be regarded as a precedent. The present payments were intended solely to meet the abnormal conditions which had arisen in the first two years of the operation of Medical Benefit, and he would add that in areas where grants were made for the relief of discounts the provision to which he had alluded for carrying money forward to the credit of the Drug Fund for 1915 would not apply. He hoped that the deputation would agree that these proposals constituted a substantial attempt to mitigate the difficulties that had arisen during the abnormal circumstances of the first two years in the working of the present system to which they had drawn his attention. Mr. Montagu added that it might well be that on consideration of the report of the Drug Tariff Committee a system of payment to the chemists would be devised which was preferable to the existing system, with its provision for discounting. Mr. White and Mr. Glyn-Jones thanked Mr. Montagu for his reception of the deputation, and the deputation them withdrew.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

ENGLAND.

Birmingham.—At a meeting of the Pharmaceutical Committee on March 29, Mr. Barlow reported that he had protested, on behalf of the Pharmaceutical Committee, against the proposal of the Insurance Committee to carry out at their offices a scrutiny of prescriptions for 1915 without any control on the part of the Pharmaceutical Committee, and against the proposal to delete from the Pharmaceutical Committee's estimate for administrative expenses the sum allotted for the carrying-out of their duties under Article 40 of the Regulations, but that the proposals were carried (C. & D., March 27, p. 66). The alterations in prices of formulas of the local Insurance Pharmacopæia resulting from the April Supplementary Tariff are as follows: No. 46, to 7d.; No. 72, to $7\frac{1}{2}d$.; and No. 73, to $9\frac{1}{2}d$.

by 12d.

Bristol.—At a recent meeting of panel practitioners in the area the Chairman of the Panel Committee (Dr. H. F. Denis) stated that in 1913 there was a deficiency in the Drug Fund of 2,200l. The Panel Committee had investigated the matter, on representations made by the Pharmaceutical Committee, but had been unable to find evidence of extravagant prescribing, and had therefore advised the Insurance Committee that no action should be taken. In spite of this, however, there is reason to believe that the Insurance Committee will endeavour to surcharge certain practitioners. Dr. Denis defended the attitude of the Panel Committee in regard to the matter, and, while strongly deprecating the balancing of cost against efficiency, he asked practitioners to co-operate with the Committee in preventing extravagance.

Burnley.—The Medical Benefit Sub-Committee reported to the Insurance Committee on March 29 that an examination of prescriptions recently dispensed showed that a large number had been signed by a dispenser in the name of the doctor by whom he was employed. The Clerk reported that he had written the doctor concerned (who was acting for a confrère on active service), and submitted a reply containing the doctor's observations on the matter. The Committee expressed strong disapproval of the practice, and resolved that the doctor be informed that he may stamp prescriptions with the name of the doctor for whom he may be acting, but that each prescription must bear his full signature.

Essex.-Mr. C. Goode, Secretary of the Essex Pharmacoutical Committee and of the County of Essex Association of Pharmacists, has removed from 136 High Street to 23 Strand, Southend-on-Sea, and all communications in regard to the above matters should be sent to him at the latter address. He is coming to London shortly.

Hampshire.—Chemists' accounts for January, as cheeked, are to be paid in full.

Hull.—The Medical Benefit Sub-Committee, in consequence of the receipt from a practitioner of an inquiry regarding the hours at which chemists are open for Insurance dispensing, has decided to request the Pharmaceutical Committee to prepare and submit a scheme to secure that in every area so far as practicable adequate facilities will

be given to the insured to obtain medicines at all reasonable hours. The Clerk reported to the Sub-Committee that chemists' accounts for February, as rendered, amounted to 8781., an increase of 721. compared with January.—The Pharmaceutical Service Sub-Committee has considered two complaints against panel chemists, alleging that a smaller quantity of medicine had been supplied to insured persons than was ordered, and that the prescribed quantity had been charged tor. In the first case the chemist concerned was urged to exercise greater care, but as the evidence did not establish that a wilful error had been made no further action was taken. In the second case the Sub-Committee, in view of the fact that four previous complaints against the same firm of chemists had been investigated and were substantiated, decided to recommend to the Insurance Committee that representations should be made to the Commissioners that the continuance on the panel of the firm in question is prejudicial to the efficiency of the pharmaceutical service under the Act, and that a letter of thanks should be sent to the practitioner who had brought the irregularity to the notice of the Committee.

Leicester.—The Insurance Committee, on the recommendation of the Panel Committee, has decided to surcharge various panel doctors on account of alleged excessive prescribing.

Liverpool.—The Pharmaceutical Committee met on March 30, when the Secretary reported on the proposal made some time ago to establish a Joint Committee, consisting of two representatives each from the Insurance. Panel, and Pharmaceutical Committees, to supervise and inspect month by month the checking of prescriptions, the cost to be equally shared. The Panel Committee, however, was unwilling to pay more than one-fourth, and fixed certain conditions which the Insurance Committee was unable to agree to. The Panel Committee was asked to reconsider the matter, as the Insurance Committee was unwilling to proceed with the scheme except on equal terms, and proposed to limit the checking to what is strictly their duty as defined by the Regulations. The Panel Committee, however, could not see its way to alter its attitude, and the Insurance Committee decided to discontinue the present comprehensive check after the 1914 prescriptions have been dealt with. It was anticipated that this would be finished in a few days, and that then the services of the checkers would be dispensed with. The Pharmaceutical Committee recently determined to put Regulation 40 into operation, and for this purpose thought it advisable to engago Mr. H. K. Jones, chemist and druggist, the present head checker, after his engagement with the Insurance Committee terminated, as he is thoroughly familiar with the work. It was understood that his services were available, and it was decided to make a start as soon as practicable. The Secretary was directed to inquire of the Insurance Committee as to the scope of the check, wherein it would differ from what was done in 1914, and whether the checking will be done by the Tariff, or if it is proposed to make only a limited arithmetical check. An estimate of the Panel Committee for 120% for administrative expenses for 1915 was considered. No objection was raised to any of the items.

Salford.—The Insurance Committee appointed to inquire into the decided to inquire with the wisting system of administrating appoi

salford.—The Insurance Committee have received a report from a special Sub-Committee appointed to inquire into the existing system of administering Medical Benefit in the area. This states that the Pharmaceutical Committee regretted that they could not see in what direction they could assist the Sub-Committee beyond furnishing figures relative to the cost of prescriptions during 1914. With reference to prescribing, the evidence submitted to the Sub-Committee indicated that, if there had been in the past any tendency to excess, that has now disappeared, and under the arrangement which the doctors have introduced this year it is expected that the chemists will be paid practically in full. It is undesirable that a reduction in the cost of prescribing should be effected by reducing all non-essential ingredients in prescriptions, or by doctors giving away various medicines. The witnesses heard by the Suh-Committee could not agree that 2s, per head is sufficient for drugs, etc. In Salford, after all the steps that have been taken by the doctors, the 2s, is barely sufficient. No recommendation was made by the Sub-Committee.

Sheffield.—At a meeting of the Insurance Committee on April 7, the Clerk reported that he had communicated with the Panel Committee regarding the refusal of the Commissioners to sanction the continuance of the flat rate of 1s. 6d. to doctors for emergency dispensing (C. & D., February 20, p. 55), and that the Panel Committee had replied stating that they are prepared to discuss the matter with representatives of the Insurance and Pharmaccutical Committees (neither of which object to the continuance of the present rate). The Committee eventually decided that

the Panel Committee be requested to consider whether they are prepared to accept a flat rate of 1s. (We hear that this amount is likely to be accepted.) The Clerk further reported that he had received a letter from the Panel Committee with reference to the cost of the analytical scrutiny of prescriptions (of which the Insurance Committee have agreed to pay one half and the Pharmaceutical Committee one-quarter), stating that the Panel Committee have agreed to take no further steps in the matter till January 1915. It was decided to forward a copy of the letter to the Commissioners for their observations thereon, and to inform the Commissioners that the Committee will letter to the Commissioners for their observations thereon, and to inform the Commissioners that the Committee will assume that the engagement of the checker (the approval of which was till the end of March) will be continued until the checking and scrutiny of prescriptions is completed. It was agreed to make a grant of 40l. to the Pharmaceutical Committee on account of administrative expenses for 1915. The following payments were passed: To chemists, 75 per cent. of February accounts, 1,021l.; to chemists, for dressings supplied to doctors, 7l.; further payments to chemists, 10 per cent. on account for 1914, 1,655l. As a result of appeals by the Pharmaceutical Committee and pressure by the Clerk of the Insurance Committee, a further credit for 1913 has been obtained from the Commissioners, which will work been obtained from the Commissioners, which will work out, roughly, in payments to chemists of a further 2½ per cent, on the 1913 accounts, reducing the loss for the year to 71 per cent.

Stoke-on-Trent. At a meeting of the Insurance Committee on April 1, it was reported that the Pharmaceutical Committee had written asking the Committee to urge the Panel Committee to take steps under Article 40 of the Regulations with reference to the 1914 prescriptions, and that the Medical Benefit Sub-Committee had pointed out that the Medical Belefit Sub-Committee had pointed out that the question between the two Committees for that period had been dropped. Mr. Edmund Jones (chemist) agreed, adding that neither side withdrew the charges made. As a result of Mr. Masterman's statement regarding the putting into operation of Article 40, the Pharmaceutical Committee made a full investigation, and reported to the Committee made a full investigation, and reported to the Panel Committee in November, but no reply had been received, and he understood that the Panel Committee declined to send any further report on the ground that the matter was closed. He moved that the minute be referred back to the Medical Benefit Sub-Committee, but there was no seconder. The Clerk had also reported to the Medical Benefit Sub-Committee that, following the Commissioners' instructions for 1915, he had paid chemists 70 per cent. of their accounts.

SCOTLAND.

Central Checking Bureau.—A conference of representatives of Insurance Committees favourable to the Central Checking Bureau was held in Edinburgh on March 3, Councillor F. J. Robertson, Chairman of the Edinburgh Committee, presiding. The Chairman, in explaining the position, said that the Regulations are at present before Parliament, and the objectors to the scheme propose to interview Mr. Montagu with the object of securing their rejection when the House of Commons reassembles. It has been ascertained that out of fifty-six Insurance Committees thirty-two have expressed approval of the scheme; nine Burgh Committees are in favour of it, and six against it; while twenty-three County Committees are favourable, and three opposed. The Conference considered what steps should be faken to have the yiews of the majority represented to the Government. Central Checking Bureau. - A conference of reprethe majority represented to the Government.

Dumfries and Maxwelltown .- At a recent meeting of Dumfries and Maxwelltown.—At a recent meeting of the Insurance Committee, the Chairman (Bailie O'Brien) said the drug-bill was again heavy. In 1913 the Dumfries Burghs were second only to Aberdeen in regard to the cost of drugs, and there was no prospect of much improvement for 1914. If there was no check on the accounts, he was afraid chemists would have them discounted. Ex-Provost Nicholson pointed out the great increase that had taken place in the prices of drugs, and said it would be grossly unfair to discount the chemists on account of the rise in cost. Dr. Laidlaw said the Commissioners had circularised the doctors on the subject. He agreed that it would be unfair to the chemists if their agreed that it would be unfair to the chemists if their bills were discounted. The matter was remitted to the Pharmaceutical, Panel, and Finance Committees.

Edinburgh.-Panel chemists have now been paid a final bonus for 1913. The balances due on the accounts (as checked) for the period December 12 to 31, 1914, have also been paid.

Rincardineshire.—At a meeting of the Insurance Committee, held at Stonehaven on April 3, Professor McKendrick, referring to the new regulations for remuneration to chemists, said "he considered them admirable." The Convener submitted a statement of the estimated income for

administrative expenses at 255l. 5s. $11d_{.0}$ and the estimated expenditure at 232l. 3s. $0_2d_{.0}$, leaving a surplus of 23l. 2s. $10_2d_{.0}$. The Committee decided that the present arrangements with regard to dispensing by panel practitioners be adhered to.

Notes.

Panel Committees.—No. 230 of the Statutory Rules and Orders, 1915, comprises Regulations for the appointment of Panel Committees in counties where no scheme has been submitted to the Commissioners under the provisions of the Regulations. Broadly, the scheme provides for the appointment of Sub-Committees eonsisting of duly qualified medical practitioners, not less than three-fourths of the members being practitioners on the panel; and it also provides that the scheme so formulated shall continue in force until the Commissioners give notice to the contrary not later than May 1 of each year.

PHARMACEUTICAL COMMITTEES IN SCOTLAND.—The Scottish Commissioners have issued an amendment to the Regulations regarding the Panel and Pharmaceutical Committees embodying the following:

embodying the following:

3. Notwithstanding anything contained in the principal Regulations, no member of a Panel Committee or of a Pharmaceutical Committee shall be deemed to have vacated his seat on the Committee by reason of his absence without leave of the Committee from meetings of the Committee for a period of six consecutive months, where such absence has been occasioned by his employment during the present war in his Majesty's naval or military forces, or by his employment during the present war in connection with naval or military operations where the Scottish Insurance Commissioners consider that such employment may properly be treated for the purpose of these Regulations in the same manner as actual employment in his Majesty's naval or military forces.

4. A Panel or Pharmaceutical Committee may, with the consent of the Commissioners, appoint Sub-Committees, and may, with the like consent, delegate to any Sub-Committee so appointed any of its powers and duties.

of its powers and duties.

PHARMACEUTICAL COMMITTEES.—No. 231 of the Statutory Rules and Orders deals with the appointment of Pharmaceutical Committees in a similar manner to the Panel Committees. Clauso 1 of the Regulations, short title; Clause 2, the interpretation. The other clauses are as

follows:

Framico of Schemes.—3. (1) In the case of any County for which no scheme has been submitted to the Commissioners under the provisions of the National Health Insurance (Panel and Pharmaceutical Committees) Regulations, 1913, before the 31st day of March, 1914, or for which no scheme has been framed by the Commissioners under the provisions of the National Health Insurance (Pharmaceutical Committee) Regulations, 1914, the Commissioners shall frame a scheme for the election of the Pharmaceutical Committee, and the Pharmaceutical Committee shall be elected in accordance with the provisions of that scheme:

Provided that in framing the scheme the Commissioners shall take into consideration any scheme submitted or representation made by the existing Pharmaceutical Committee for the County, or by any person or persons supplying drugs or appliances in the County, or, in a case where a new Insurance Committee has been constituted in consequence of the formation of a new County, by the Pharmaceutical Committees of the County or Counties contributing to the area of the new County, or by any person or persons supplying drugs or appliances in any part of such area.

(2) Every scheme framed under these Regulations shall provide:

persons supplying drugs or applianees in any part of such area.

(2) Every scheme framed under these Regulations shall provide:

(a) that the persons entitled to elect shall be the persons supplying drugs or appliances;

(b) that not less than two-thirds of the members of the Committee shall be registered pharmacists;

(c) for the term of office of the members of the Committee;

(d) for the quorum of the Committee;

(e) for the method of filling casual vacancies;

(f) for the manner in which the scheme may, subject to the approval of the Commissioners, be amended.

(3) Any scheme framed under these Regulations may provide for the appointment by the Pharmaceutical Committee of Sub-Committees and for the delegation to any Sub-Committee so appointed of such of the powers and duties of the Pharmaceutical Committee as may be specified in the scheme.

4. A Pharmaceutical Committee when constituted shall perform all the duties and may exercise all the rights and powers and shall be subject to all the liabilities and obligations theretofore performed or exercised by, or imposed upon, any Pharmaceutical Committee to which it succeeds or any Pharmaceutical Committee previously representing, whether wholly or in part, the same area; and any matter then pending, which would otherwise have fallen to be dealt with by such other Pharmaceutical Committee, shall proceed for all purposes as if the Pharmaceutical Committee, shall proceed for all purposes as if the Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relation to such matter by such other Pharmaceutical Committee, and as if acts done in relat

other Pharmaceutical Committee were the acts of the Pharmaceutical Committee then constituted.

Duration of Schemes.—5. Any scheme approved or framed by the Commissioners shall continue to have effect; subject to any amendments duly made therein, until the Commissioners give notice to the contrary to the Committee, but such notice shall not be given in any year later than the 1st day of May.

Provision in Case of Delay in Electron.—6. If any election of the Pharmaceutical Committee for any County has not been completed within the period appointed by the scheme, the

Commissioners may, if they think fit, extend that period, and, if the period is so extended, may extend the term of office of the existing members of the Committee for any period not exceeding four weeks, and the new members of the Committee shall thereupon come into office at the expiration of the term as so extended.

MISDESCRIPTION, ETC., NOT TO INVALIDATE ELECTION.—7. If by reason of any misdescription or miscount or for any other reason an election has not complied with the provisions of the scheme under which it is held, and the Commissioners are satisfied that such non-compliance did not substantially affect the result of the election, they may, if they think fit, declare the election to be valid.

Name - Revocation of Previous Regulations.—8. The National Health Insurance (Panel and Pharmaceutical Committees) Regulations, 1915, in so far as they relate to Pharmaceutical Committees, are hereby revoked, but without prejudice to the validity of any election held, or appointment made, or to any right, privilege, obligation, or liability acquired, accrued or incurred, thereunder. These Regulations apply to England and Wales.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. R. Agar, chemist and druggist, has been re-elected a member of the Eston Urban Council.

PROFESSOR W. K. RÖNTGEN, the discoverer of the application of x rays, was seventy on March 27.
Mr. W. F. Gadd, Ph.C., Abingdon, has been re-elected
a member of the local Board of Guardians.
Mr. W. E. Goff, Ph.C., the retiring Chairman, has been
re-elected a member of the Dartford Urban Council.

ALDERMAN SIR JASSEM REVELLAND BARK has been elected

ALDERMAN SIR JOSEPH BEECHAM, BART., has been elected a Vice-President of the St. Helens Chamber of Commerce.

MR. Thos. Brewis, chemist and druggist, 325 Fratton Road, Portsmouth, has been re-elected on the local Board of Guardians.

On Good Friday evening Mr. J. Wellesley Douglas, pharmacist, played three violin solos, accompanied by the organ, in Kennington Church; and Mrs. Douglas sang "The Better Land" and "The Voice of the Father," by Cowen.

SIR JESSE BOOT, Nottingham, employing 9,000 hands, signed the anti-drink memorial to Mr. Lloyd George. The memorial asks the Chancellor of the Exchequer to take steps to prohibit the manufacture and sale of alcoholic

steps to prohibit the manufacture and sale of alcoholic liquors during the period of the war.

Mr. William Gorst, chemist and druggist, of Bate & Gorst, Market Street, Lancaster, has been presented by the members of the Lancaster Pharmacists' Association, of which he is Treasurer, with a case of silver fish-carvers and thirty-six pieces of cutlery, on the occasion of his marriage.

As noted in our issue of March 27, Dr. A. Tschirch on March 19 celebrated his semi-jubilee as Professor of Pharmacognosy and Director of the Pharmaceutical Institute, Berne University, to which he was appointed in succession to the late Professor Flückiger. At a festive meeting, held in the Institute on March 21, Professor Tschirch delivered a lecture on "Chemistry and Pharmacy in the Swiss Exposition in Berne."

Mr. JOHN KEMA, who will join the Council of the Phere.

Mr. John Keall, who will join the Council of the Pharmaceutical Society of Great Britain in May, was born in



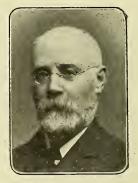
MR. J. KEALL.

1875, and was apprenticed to his father, Mr. Holmes Keall, Elgin Avenue, Maida Vale, and thereafter filled various positions in London. He positions in London. He qualified in 1898, and in 1900 purchased the business of Mr. D. H. Williams, West Hill, Wandsworth, which he still carries on. Mr. Keall ac-cepted nomination for the Council at the unanimous request of the London Pharmaceutical Association, of which body he is Vice-Presi-dent. As Chairman of the London Pharmaceutical Committee and President of the South-West London Phar-macists' Association, the man and his work are well known

and his work are well known to London pharmacists, while he is also known to a wider pharmaceutical circle through his connection with the Local Associations Executive and the Council of the P.A.T.A. Mr. Keall is thoroughly conversant with Insurance work, and should therefore prove an acquisition to the Council at the present juncture. He favours a more active business rollicy on the part of the Local Associations. Executive policy on the part of the Local Associations Executive.

MR. JAMES PINKERTON GILMOUR, of Glasgow, who is succeeding Mr. David Gilmour, of Dunfermline, as a member of the Pharmaceutical Council as from Wednesday, May 19, is the first Australian-born pharmacist to be clasted.

macist to be elected to that body. "A' Stuarts are no' sib to the King," neither are these two Gilmours related (sib) to each other. Had not to each other. Had not his parents come back to the Old Country, Mr. J. P. Gilmour might still have been in Australia, perhaps sheep-farming; but a kindly fate brought him as a lad under the influence. a lad under the influence of the late Alexander Kinninmont, whose ap-prentice he was, and it was in a rich intellectual



Mr. J. P. GILMOUR.

soil that kindly Mr.
Kinninmont sowed his liberal and philosophic views of pher-Kinnimont sowed his liberal and philosophic views of phirmacy. Anyway, his pupil, good pharmacist though he be, was slow to be wooed by Dame Pharmacy, for it was not until 1899 that he became a Minor man, although long before he had been marked as a coming man in Scottish pharmacy. His ready wit, fluent tongue, facile pen, wide knowledge, and philosophic outlook distinguished him from "the general" before opportunity demonstrated that he is an administrator.



Postal Address: C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).

Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

60/74. "Sanoline," a disinfectant 61/6. "Sexton" safety razors. 43/50. Freeman's essence of 50/74. "Sanoline," a disinfec-tant
61/8. "Japanese Floating
Soap": makers.
59/11. Dr. Adam's pills: sup-pliers.
51/72. "Sibas," used in perfumery. 1/69. "Eucresone" disinfectof the first state of the first

senna. 7/58. "Elysium" senna.

57/58. "Elysium
makers.

56/63. "Oxypathor": supply.

62/41. Explanatory clinical
thermometer (patent No.
12330).

62/410. "Cairo" D syringe.

62/410. "ar Calumba." 62/410. "Cairo" D syring 62/410. Agar Calumba. 62/44. "Galactophos." 62/45. "Sutton Syrups."

See also "War Wants Exchange" in the Coloured Supplement.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

42 Cannon Street, London, Acetic anhydride, 55/34
Acetylsalicylic acid, 48/630
"Amid" insecticide, 52/28
Cocca-and-milk tablets, 44/16
Compressed-cork socks, 47/23
Corrugated packings, 41/451
Iodine ampoules, 53/36
"L.B.Q." tablets, 4/15
Lactoform tablets, 55/26
Leciglobin cansules, 25/66 Leciglobin capsules, 25/66 Levathol, 24/43 Licorax, 23/20 "Lifebuoy" soap, 4/17 "Lifebuoy" soap, 4/17 Lime acetate (Chinese inquiry), 20/170

Manioca-root, 54/53 Nickelled shaving-stick tubes, 32/57 Obsidianite, 39/660 Obsidianite, 39/660
Powder-leaves, 50/74
Puff-boxes, 51/56, 53/45
Puffs (makers), 45/171
Pump perfume-sprays (neuber), 32/57
"Radio" razor blades, 29/39
Sodium sulphate, 35/370
Stymol, 41/14
Sylphynous acid (for He (no Sulphurous acid (for Holland), 50/66 Syrolit, 29/3

See also "War Wants Exchange" in the Coloured Supplement.

Observations and Reflections. By Xrayser II.

France, like England,

has allowed Germany completely to outstrip her in chemical research and industry, and one of the chief reasons given by M. Barthe is the same that has been alleged here—namely, the miserable salaries paid to trained chemists—when, that is, they are lucky enough to earn any salary at all. The Woolwich case, on which I commented recently, is still fresh in mind, and is a sufficient proof that from this point of view the study of chemistry is not "good business." Here we have the root of the matter, and I venture to say that the doubling of all official chemical salaries would do more towards redressing the balance with our German rivals than all the other reforms advocated by Professor Perkin put together, and would probably cost less. Chemistry would then begin to be recognised generally as a remunerative and an honoured profession, and the rest would follow. Once make it really worth while for men with brains to take up this study, and not only would means be found for educating them, but such interest would be excited in their work as would not allow them to remain "fossils." It is money that makes the mare to go, says the old proverb, and though this may seem a sordid view, it is sound political economy.

The National Research Laboratory

proposed by Sir Thomas Barclay would be an excellent institution if it could be set agoing on a sound basis, but the difficulties would begin when we approached the practical details. I do not think that the money would be awanting, for whenever the nation is convinced of the necessity for any course of action the support is generally forthcoming. The management and direction of the research would be a more complicated business, and recent experience does not encourage us in the hope that the troubles would be easily resolved. At the present time many thousands of pounds of public money are being squandered in different directions on so-called research, and if some firm hand were given the power to co-ordinate these various agencies we would have magnificent opportunities ready to our hand, which are now frittered away very largely in efforts at self-advertisement and self-aggrandisement.
There are the Lister Institute, the Board of Agriculture research grants, and the Insurance Act annual fund of more than 50,000l. What is going to be the practical outcome of these "research" funds? Great efforts were made to unite two of the schemes, but "vested interests" prevented any arrangement being made; while it is also suspected that any independent worker who fails to worship at the Camden Town shrine is systematically and unblushingly boycotted by the men who control the

Sir Thomas Barclay's Scheme

deals with chemical research pure and simple, while those mentioned are largely biological and pathological, but the difficulty of direction would remain. There is no public body competent to supervise such a scheme, for the Board of Trade is really a most helpless institution for work of this kind. I am afraid that a "Board representing professors and business men" would not be of much use either, for in all such cases the faddist gets his opportunity and makes the most of it. Sir Thomas thinks that successful students would be in great demand by manufacturers, but I am doubtful. British manufacturers inherit certain ideas as to payment for work of this kind, which is generally so low that there is no inducement for young men to go in for it, particularly as future prospects hold out no compensation for the immediate plodding at insufficient incomes. Young research chemists should be put upon a "basis," by which I mean that for any discovery that they make or improvement introduced they should have a percentage on the results. This scheme has long been operative in German dyeworks,

and to it is attributed a measure of the German success; but it is also operative in this country, and even in the drug-trade. I know instances where it has been the means of keeping up returns in businesses which would otherwise have been ranked as unprogressive and old-fashioned. While, therefore, I am in sympathy with Sir Thomas Barclay's suggestion, I feel that future development lies with business houses which are manufacturers and know the markets for the products.

The Label

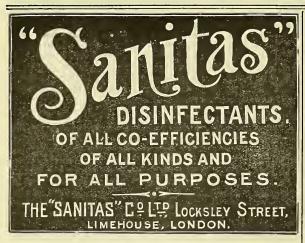
was one of the subjects touched upon by Sir W. H. Lever in his speech to the Sales Managers' Association, and it is one that should have the particular attention of the pharmacist. Most of us, I fancy, when we have decided what to say on a label, leave the design to the printer, or at least accept his suggestion, and in many cases this is perhaps the best course, but it has its disadvantages. Labels should be not only distinctive, but as far as possible personal—that is, they should bear the impress of the proprietor as well as his name, which they will hardly do unless he designs them himself, accepting, of course, such technical help as is necessary. I do not want my labels to be exactly of the same type as my neighbour's. A really good label is, in its way, a work of art, and this implies that it expresses the mind of its author. Shall I be thought extravagant if I say that, like a poem, it should be "simple, sensuous, and passionate"? The first requisite is singleness of impression, which appeals primarily to the intelligence; the second (which depends largely upon the first, being mainly a matter of form) is pleasure to the eye, and through it to all the senses; the third is a sympathetic appeal, arousing in the reader the feeling which inspired the composition. The combination of the three is evidently not a journeyman's work, but demands qualities which only one with a strong personal interest in it can supply. Success here, as in fact in all business, depends indeed entirely on personal interest, and as this grows by its own exercise there is no exaggeration in saying that the designing of one's own labels at once evinces and increases one's business capacity in an extraordinary degree.

Mr. William Kirkby

adds much that is extremely interestto what has been said on the subject of Dr. McWalter's letter, but his authorities seem to have misled him a little with respect to the use of the word epithem in the seventeenth century. My note was necessarily brief, but my quotation from Quincy was not condensed, except by the accidental omission of the conjunction "or," and the definition given agrees more nearly with the facts than does the description "of a liquid form, like a formentation," quoted by Mr. Kirkby from a later work. Of the two epithems of the P.L. of 1746 one was a blistering-paste, and one of the three still supposed to be in use when Rennie published his "Conspectus" (4th ed.) in 1837 was to be applied on leather, like a plaster. Probably Dr. McWalter could not have found a better single word than "poultices" as a translation of the term as used in the twelfth century. Be this as it may, there was nothing unusual in the epithems of the P.L., as Mr. Kirkby may assure himself by referring to the O.E.D., where, under "Epithemation" (with a cross-reference to "Epithem"), he will find the definition "a Plaister, Salve, or Ointment" quoted from Kersey (1715). I cannot think there is any reason to reject the derivation of stupe from L. stupa, and Bailey seems to have abandoned his suggestion, since it does not appear in the later editions of his Dictionary. that of which I have a copy (the 24th) he has this entry only:

"Stupes [with Surgeons] Pledgets of Tow, &c., dipped in hot Liquors, to be applied to the Parts affected."

It was the pledget that was the stupe, not the medicament on it. Salmon's *stuph* proves nothing; his stuphs were not always styptics, and our word *stuff*, which is also from *stupa* (more properly *stuppa*), shows that his form of the word may be accounted for on the old hypothesis.



Showcards and Literature on application.





PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail soud Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London. REGINALD W. BARKER.

BOOKS. 8 D. EVERYONE PRACTICAL, MONEY MAKING & MONEY SAVING

PHARMACEUTICAL FORMULAS. (9th Edition, 1914.) 10/-

by Post 10/6.

ART OF DISPENSING. (9th Edition.) 580 pages, 6/-, by Post 6/4.

VETERINARY COUNTER PRACTICE. 4/-, by Post 4/4.

ELEMENTARY DISPENSING PRACTICE. 3/6, by Post 3/9.

DISEASES AND REMEDIES. (4th Edition.) 3/-, by Post 3/3.

PRACTICAL METHODS OF URINE ANALYSIS. 2/6, by Post 2/9. PRACTICAL METHODS OF URINE ANALYSIS. 2/0, by POSUZIO.
THE CHEMIST'S MEDICAL DICTIONARY. 2/6, by Post 2/8.
GUIDE TO PRELIMINARY EXAMINATIONS. 2/6, by Post 2/9.
MANUAL OF PHARMACEUTICAL TESTING. 2/6, by Post 2/9.
OPENING A PHARMACY. (3rd Edition.) 2/6, by Post 2/9.
CHEMIST'S DICTIONARY OF SYNONYMS. 2/6 net, by Post 2/8. PROVINCIAL HOSPITAL PHARMACOPŒIAS. 2/6, by Post 2/8.

THE CHEMIST AND DRUGGIST, 42 CANNON STREET, LONDON, E.C. Also Stocked by the leading Wholesale Houses.

Index Folio 480

"A revolution in the art of Urine Testing."-Medical Press

Wholesaie Terms on application to the Sole Proprietors: FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Insurance Act Dispensing. Out-Saltering Salter.

WE quoted in the C. & D., March 13, p. 101, a passage from a speech by Dr. Alfred Salter, in the course of which he asserted that panel chemists make up to 800 per cent. profit from dispensing Insurance prescriptions. The "Daily Dispatch" of Manchester has got hold of "A Lancashire Medical Man" who is even more extravagant in assertion than Dr. Salter, who, by the way, is the prospective Labour candidate for Bermondsey. "Dispatch" doctor said, among other things:

"Dispatch" doctor said, among other things:

"A few doctors have been surcharged on the most trivial grounds, while investigation has often proved that they are by no means at fault. Our view is that it is due to the chemist's excessive charges, which he is given power to fix according to the Insurance Act. I could quote many instances, but here is one. Recently a chemist sent in eighty prescriptions to an Association which were exactly the same as I would prescribe to Insurance patients. The chemist's charge for those was 6s. 9d., whereas if they had been charged to the Insurance Committee at 1s. 2½d. it would have come out at 4l. 16s. 8d. This showed the extraordinary profits of the chemists under Insurance Act dispensing. In another case where the total cost of drugs was about 5d., and 2s. per head was allowed, the remaining 1s. 7d. was swallowed up by the chemists' profits. Dr. A. Salter, of London, stated a few days ago that a number of cases lad been analysed, and this showed that the chemists' profits exceeded 500 per cent., some 500 per cent., and others even 800 per cent. This is a scandalous state of affairs. I don't altogether blame the chemist for all this. It is the fault of the Insurance Act. At the same time it is hard on the medical practitioners that because of that they were accused of being wasteful and of over-prescribing. Because I gave my patients the medicine they really required to be cured, I was recently surcharged to the extent of 5l. It is a great injustice, and the surprising thing to me is that insured patients don't take the whole question up. Public protests would do a lot of good. It would do away with the allegations against the doctors, and perhaps induce the Insurance Commissioners to revise the Tariff. Otherwise, the only remedy is for the Govern-"A few doctors have been surcharged on the most trivial and perhaps induce the Insurance Commissioners to revise the Tariff. Otherwise, the only remedy is for the Govern-ment to establish national pharmacies. It is a crying shame that patients who pay their Insurance every week under the Act are not allowed, in many cases, to be given that medicine which the efficient treatment of their ailments demands."

Numerous copies of these remarks have been sent to us by subscribers. This is the sort of stuff which doctors are to put before the Departmental Committee on the Drug Tariff. Yet it does not bear analysis. The first statement of figures, for example, is on eighty mixtures, charge eighty-one pence, and if supplied by Insurance prescription the charge would be 1s. 2½d. each, or 4l. 16s. 8d. The statement is untrue as well as absurd, it being impossible to manipulate the Tariff so as to make a pennyworth of drugs into more than a shillingsworth of a mixture. The doctor does not explain that the surcharges which he had to pay were approved by his medical colleagues on the Panel Committee, but we should like to know whether or not he would have given these expensive drugs if he had to provide them to the insured persons under an inclusive charge. The "crying shame" of the matter is that the Insurance Commissioners have ordered an inquiry which is partial in so far as it does not cover the dispensing in rural areas. The nature of the medicines

supplied by panel doctors there should be ascertained and compared with what is prescribed by panel doctors in adjacent districts, especially those in which discounting of chemists' bills and surcharging of panel doctors have occurred. The present inquiry has been restricted to the profits afforded by the Drug Tariff. This is narrow and insufficient. It has been demonstrated over and over again that in districts where the Drug Fund has proved to be insufficient the shortage has been due chiefly to a few panel doctors in the districts. This is still going on, and official proof of it is available, The Mcdical Benefit regulations cannot stop it because Panel Committees generally are averse to censuring their fellow practitioners for prescribing in excess of the Drug Fund. If such prescribing is not being done by country practitioners who supply insured persons with medicines, that is proof that it is unnecessary for adequate treatment. We ought also to emphasise the fact that adequate treatment is provided by the majority of panel doctors in England, Scotland, and Wales, who prescribe in such a way that the charges for the dispensing of their prescriptions are less than 1s. 6d. per insured person per annum. Although Iocal conditions have much to do with siekness and prescribing, we submit that analyses of prescriptions dispensed by chemists have proved that the medical personal factor has a great deal to do with the excessive demands on the Drug Fund; the divergence between the cost of treatment by doctors in the same district shows that some of them do not prescribe with that sense of the fitness of things and perception of the limited amount provided for treatment which their medical neighbours display. This aspect of the matter should not be ignored by the Departmental Committee, but we question if it has the power to go into it, and therein lies a serious injustice to chemists.

Dispensers in Temporary Military Hospitals.

Up to the present there is little evidence of any pharmacist being actually relieved of office through the military authorities taking over institutions, wholly or in part, but evidence is forthcoming that the chemist is not having equal treatment, and steps should be taken before it is too late to remedy this grievance. Where hospital accommodation is found for injured soldiers a payment is made per head of the patients received. Generally military rank with pay is given to the medical men, which compensates them for the extra work entailed; but the Army Medical Service regulations at present provide no commissioned rank for other than medical men (except quartermaster), so the pharmacist shares the extra work, but receives no extra pay. As there is a move by the medical men to procure a rank not less than captain, which is only equal to the rank given them of lieutenant in the Navy, the time appears opportune to attempt to procure beinporary lieutenancies for the principal pharmacists of the hospitals concerned.

Two Good Councillors Going,

THE Pharmaceutical Council will be the poorer owing to the retirement of Mr. C. B. Allen and Mr. David Gilmour, who are among the elderly members, although we know none on it who are younger in spirit. They are men matured in counsel, and such members are of the greatest service at all times. Mr. Allen has had a good innings. There is none on the Council who has served it longer in office, while his work as Vice-President and President stands as a record of honest and straightforward service, and respect of precedent and tradition—the things which the younger generation are apt to ignore. Mr, David Gilmour has been serving the Society for a

quarter of a century as an examiner, a member of the Scottish Executive, and member of the Council. The last position he took less than ten years ago, when Mr. David Storrar retired, and there is no member whose opinion is more respected than his, or who speaks more sagely and with fuller knowledge of the country pharmacist's condition and needs. His retirement brings on to the Conneil a second West of Scotland pharmacist, and for the first time the East of Scotland will not be directly represented It is not the first time, however, that two thereon. Glasgow men have been on the Council at the same time. Mr. J. M. Fairlie and Mr. Daniel Frazer were together there for a year or two, when Mr. John Mackay was the Edinburgh member; but Mr. Fairlie was a free-lance, and did not represent the West as such. It is a pity that the traditional representation of East and West breaks down for the first time, but the pity is merely a sentimental regret about one of the many things that slip from us as the years flow past,

Patents and Trade-marks Report.

The chief interest in the thirty-second report of the Comptroller-General of Patents, Designs, and Trademarks is the section dealing with the legislation regarding patents and trade-marks necessitated by the war. A clear statement is made as to the reasons for the exceptional. legislation which enables the Board of Trade to avoid or suspend the registration of trade-marks and to grant licences in respect of patents of alien enemies. It is noticeable also that the inability of alien enemies to pay registration or patent fees owing to the war is provided for, otherwise the patents and trade-marks involved might have become public property. This, of course, is in accordance with British ideas of justice, and it is obvious that in the hearings that have taken place before the Comptroller great care has been taken to maintain British traditions. There have been criticisms of this attitude of heaping coals of fire on the head of enemics, but it would never be in accordance with justice that the British administration should stoop to the low practices of German "kultur." The conditions upon which avoidance or suspension of trade-marks and the issue of licences to work patents are granted have been laid down very clearly, so that it is now easy to state beforehand the chances of success of applications. These conditions are repeated in the Comptroller's report.

Temperance "Brandy"

THE National British Women's Temperance Association has issued the following statement:

SUBSTITUTE FOR BRANDY.

Tincture of ginger (strong), aromatic spirit of ammonia (sal volatile), chloric ether, of each equal parts.

In faintness, spasm of stomach, diarrhea, or sudden pain, one teaspoonful mixed with one tablespoonful of hot or cold water may be taken every quarter or half hour until relieved.

To be obtained of any chemist from 3d. upwards. To be kept in a well-stoppered bottle.

To this is appended the name of a "M.R.C.S.L.," which we do not find on the current year's Medical Register. Our readers will note that the preparation contains much more alcohol than brandy, and the sale of it as a substitute for brandy is illegal unless the person selling it is licensed to sell spirituous liquors. The prescription is far from being a temperance one, and the more widely this fact is exposed the better; but our chief concern is to warm retail chemists that they run considerable risk in selling such a preparation as a substitute for brandy. Chemists may not sell any alcoholic preparation, unless it is for the sick, lame, halt, and distempered. It is conceivable that such a preparation as the above might be used as an intoxicant pure and simple, and the Commissioners of Customs and Excise are very strict in regard to the sale of such cordials since the temperance party began to object to them.

Inventions Which have Become Public Property.

IX.

[Continued from THE CHEMIST AND DRUGGIST, April 3.]

Protargol.

Silver proteinate. Used as a bactericide and antiseptic in gonorrhœa and conjunctivitis.

TRADE-MARK: No. 275299, registered in 1905 by the Farbenfabriken vormals F. Bayer & Co., 27 Koenigstrasse, Elberfeld.

PATENTS: No. 18478 of 1897, "The Manufacture or Production of Pharmaceutical Compounds," granted to the above-named company. The patent was in force for the whole period of fourteen years. The United States patent is 615970 (1898).

Three methods of preparation are given in the British

patent-specification:

A. A somewhat concentrated watery solution of 4.4 parts A. A somewhat concentrated watery solution of 4.4 parts of protablumose is stirred into the solution of 1 part of silver nitrate in 1.5 part of water. The precipitate thus obtained is filtered, washed with water, and, without being previously dried, is introduced into a warm solution prepared from 4.5 parts of water and 5 parts of deuteroalbumose. On heating the resulting mixture for a short time by means of a water-bath, with continuous stirring, the precipitate is dissolved. The soluble compound thus produced can be obtained in a dry state by evaporating the solution under a low pressure. the solution under a low pressure.

In example B peptone and silver oxide are used, and

in C peptone and silver nitrate.

Pyramidon.

Dimethyl-amido-antipyrin. Antipyretic.
TRADE-MARK: No. 215952, registered in 1898 by the
Farbwerke vormals Meister, Lucius & Brüning, Hoechst

A/M. Registration renewed in 1912.

PATENTS: Nos. 7709 of 1896, "New Derivatives of Amido-1-Alphyl-2 Alkyl-5-Pyrazolones," and 9268 of 1897, "Manufacture of 1-Phenyl-2-Alkyl-pyrazolones," granted to the above-named company. The first remained in force for the whole period of fourteen years, the second

became void in the fourth year. The United States patent is 579412 (1897).

The first British patent claims the manufacture of 1-p-amido-phenyl-2: 3-dimethyl-5-pyrazolone. The second claims the manufacture of 1-phenyl-2: 3-dimethyl-5-pyrazolone and 1-phenyl-2-ethyl-3-methyl-5-pyrazolone, and

processes are given in the specifications.

Pyramidon salicylate is the subject of the British patent 11040 of 1900 (United States patent 680278, 1901), where the process of preparation is described. The British patent became void in the thirteenth year.

Pyramidon camphorate is described in British patent 22391 of 1900 (United States patent 686998, 1901). Examples are given of the manufacture of both the normal and acid camphorate. The British patent became void in the tenth year.

Salipyrin.

Antipyrin salicylate. Used in rheumatic fever and

TRADE-MARK: No. 229381, registered in 1900 ("No claim for 'Sal'"), by J. D. Riedel, 12 and 13 Gerecht-

strasse, Berlin.

PATENTS: No. 10432 of 1890, "Manufacture of Salicylate of Phenyl-dimethyl-pyrazolone," granted to Hans Lüttke, Rostock, Ludwig Scholvien, Grünau, and Ludwig Friedrich Riedel, Berlin. The patent became void in the thirteenth year. The United States patent is 444004 (1891).

The following is the process of manufacture as given

in the British patent-specification:

Phenylhydrazin 100 parts Accto-acetic cther Methyl-salicylic cther Hydriodic acid (50-per-cent.) Methyl alcohol 125 parts 150 parts 20 parts ... 100 parts

These ingredients are heated in a digester to from 160° to 180° C., corresponding to a pressure of about nine to

fifteen atmospheres, for about ten to twelve hours. The resulting thick brownish mass is then washed with petroresulting thick brownish mass is then washed with petro-lcum-benzine in order to remove the excess of methyl-salicylic ether. The methyl alcohol is then distilled off, and the remaining mass is left to crystallise. The deposited crystalline mass, of brownish colour, is freed from the adhering liquid particles, as far as possible, by suction, and purified by recrystallisation from alcoholic solution.

In the statement of claims the substance is mentioned as "salicylate of phenyl-dimethyl-pyrazolone, also called salipyrin," and elsewhere in the specification it is referred to as "a new product now known as salipyrin."

B.P.C. Meeting.

THE Executive Committee of the British Pharmaceutical Conference have decided to hold this year's meeting in London in July, confining it strictly to business and the Science and Practice Sections. The Hon. Secretaries (Mr. Horace Finnemore and Mr. Reginald R. Bennett) ask those who intend to be there to advise them by postcard addressed to 17 Bloomsbury Square, London, W.C., so as to facilitate the arrangements. The Secretaries would like to see a full complement of papers, in order that the "Year-book of Pharmacy" for 1916 may be a permanent record of the fact that even in these times the Conference does not permit the progress of British pharmacy to suffer.

Veterinary Notes. By a M.R.C.V.S.

Canker in the Dog's Ear.

Cases of this kind of an obstinate character give great annoyance owing to the slow and unsatisfactory progress made in recovery. At times it would seem that the various remedies employed have no effect and are quite unsatisfactory. A very good remedy which seldom fails is to dress the parts thoroughly with tincture of iodine every alternate day for at least three times, when a marked improvement should be observed. A fourth application is seldom necessary, but may be used if there appears to be need for it.

Chronic Cough in Cows.

ONE frequently sees cows with a nasty, racking or chronic cough, with or without lung-trouble. There is usually deep breathing, hide-bound, emaciation, loss of appetite, and a shrinkage in the quantity of milk, which becomes very thin and blue. The cough is very painful, and seems to rack the whole system. In such cases 6 to 10 dr. of petroleum given in a bottleful of milk daily for a few weeks will allay the cough and pain if not remove it altogether. If the dose is given twice daily, smaller quantities will suffice. No one would believe the virtue of this treatment unless he had actually tried it.

Seasonable Antiseptics.

Now that the lambing, calving, and foaling season is again with us, and the castration season succeeding, the following preparation should be kept ready for sale as an effectual parturient antiseptic (especially after difficult and protracted cases of parturition), as well as having healing properties after castration:

Ol. terebinthinæ ... Chloroformi ... Acid. carbol. pur. ... Ol. olivæ ad Зiiss. Зіі j. 3xxxvj.—M. May be coloured with alkanet.

This mixture is also excellent for sores and wounds, and for such general use the quantity of turpentine may be doubled. It is a grand preventive of proud flesh, and is therefore specially recommended in the treatment of broken knees and the like, in which it causes rapid improvement or healing, and is seldom followed by any of the complications usually experienced. It can with all confidence be recommended by veterinary chemists.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held on April 7 at 16 Bloomsbury Square, London, W.C. Grants were made from the Benevolent Fund of 160/., and references were made to legacies which the Fund has received recently. Mr. Rogers, the Chairman of the Committee, appealed for money on behalf of the Orphan Fund. The result of the school-prizes competition was announced, and among the awards were four The report of the deputation to Mr. Montagu, regarding overspent Drug Fund areas, was read to the Council, and received with satisfaction. The number of nominations for the seven seats on the Council to be vacated next month being equal to the vacancies, there will be no Council election this year. Five of the present members were nominated, and Mr. J. P. Gilmour and Mr. J. Keall take the places of Mr. C. B. Allen and Mr. D. Gilmour, who did not seek re-election.

THE Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. C. B. Allen, F. E. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, W. L. Currie, F. J. Gibson, R. L. Gifford, A. Hagon, J. Harrison, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young.

ABSENT COUNCILLORS.

The PRESIDENT said that communications had been received from Mr. D. Gilmour and Mr. J. F. Harrington regretting their inability to be present.

ELECTIONS AND RESTORATIONS.

There were sixty-two members elected, and sixty-seven restored to their former positions in the Society. A number of student-associates were also elected, and three restorations made to the Register of Chemists and Druggists. The Secretary reported that he had during the month registered sixty-two apprentices or students.

CORRESPONDENCE.

Communications were received from the Thames Valley, Dewsbury, North-East London, Cheshire, and Grimsby Pharmacists' Associations, expressing approval of the Council's policy regarding Section 4 (b) of the Poisons and Pharmacy Act dealing with apothecaries' assistants.

The Manchester Pharmaceutical Association expressed satisfaction at the improvement made in the conditions governing the Manchester Pharmaceutical Association Scholarship Competition.

FINANCE.

The Treasurer then presented the report of the Finance Committee. The receipts of the General Fund during the month amounted to 4,665*l*. 1s. 6*d*., made up as follows: Penalties and costs, 56*l*. 8s. 5*d*.; "Journal," 25*l*. 8s. 11*d*.; "B.P. Codex," 47*l*. 1s. 2*d*.; subscriptions, 2,356*l*. 4s.; registration-fees, 117*l*. 12s.; restoration-fees, 3*l*. 3s.; examination-fees, 2,014*l*. 2s.; repayment of Pharmaceutical Committees' election expenses, 3*l*. 11s. 8*d*.; dividends, etc., 41*l*. 10s. 8*d*. A balance remained of 4,442*l*., after deducting the payments ordered at the last meeting of the Council. The following amounts were recommended for payment: "Journal" and publications, 212*l*. 2s. 3*d*.; stationery, etc., 95*l*. 10s.; current expenses, 600*l*.; salaries, etc., 341*l*. 13s. 4*d*.; school and examinations, 312*l*. 10s. 5*d*.; law and professional charges, 41*l*. 17s.; house expenses, 177*l*. 12s. 5*d*.; sundrics, 3*l*. 3s. 7*d*.—a total of 1,789*l*. 9s. The balances on the Benevolent Fund were as follows: Current account, 603*l*. 13s. 10*d*.; donation account, 371*l*. 5s. 11*d*. (including 250*l*. legacy from the late H. L. Hargreaves, Oldham); Orphan Fund (debit balance), 29*l*. 18s. 4*d*.

In moving the adoption of the report, the TREASUREE called attention to special contributions which had been received for the Benevolent Fund: Mr. J. Attenburrow (Melton Mowbray), 15s.; Mr. A. Middleton (Nottingham), 1l. 4s.; the executors of the late W. Ransom (Hitchin), 100l. He alluded also to the satisfactory condition of the General Fund of the Society, and said it is intended to place a few thousand pounds on deposit so that some interest would accrue.

The report was adopted.

BENEVOLENCE.

Mr. Rogers, Chairman of the Benevolent Fund Committee, presented the report of the Committee, which recommended grants to twelve persons amounting to 160l. 6s., and in moving the adoption of the report the Chairman commented on the satisfactory state of the accounts. He referred to the legacy of 5,000l. which the late Thomas Kay has bequeathed to the Fund, of which in his lifetime he was a generous supporter. Mr. Rogers also made a special appeal for funds for the Orphan Fund, which at the present time has many claims upon it. He mentioned also that the Committee holds the view that chemists who have acted as "cover" for unqualified persons and afterwards apply for assistance from the Benevolent Fund have no right to expect grants.

This view was supported by Mr. F. J. Gibson and Mr. L. M. Parry, but Mr. Young reminded the Council that in making distinctions the Committee is treading on dangerous ground.

The report was adopted.

LIBRARY COMMITTEE.

The President presented the report of the Library, Museum, School, and House Committee. This dealt with routine matters connected with the school, library, and museum. An account for house repairs of 6l. 15s. 9d. was passed for payment, and the President is to report on the annual cleaning and renovations required to the premises. The preparation of the annual report was left in the hands of the President.

The report was adopted without discussion.

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of this Committee, which was embodied in that of the Parliamentary and General Purposes Committee, stated the result of the Pricing Conference between representatives of the British Medical Association and the Pharmaceutical Society, and that the supplementary tariff for April has since been approved by the Commissioners and issued to panel chemists. The Secretary reported having visited Dorset, Plymouth, Eastbourne, Birmingham, and Cardiff in connection with various difficulties associated with the administrative work under the National Insurance Act.

SCHOOL PRIZES COMPETITION.

The result of the school prizes competition was announced as follows:

BOTANY: Silver Medal, Dora Florence White; Certificates of Honour, Arthur Joseph Somer and Robert William Bowles.

CHEMISTRY: Silver Medal, Robert William Bowles; Certificates of Honour, Arthur Joseph Somer and Dora Florence White.

PRACTICAL CHEMISTRY: Silver Medal. Arthur Joseph Somer; Certificates of Honour, Robert William Bowles and Frank Dudley Collen.

MATERIA MEDICA: Silver Medal, Arthur Joseph Somer; Certificates of Honour, Dora Florence White and Robert William Bowles.

ENGLISH BOARD OF EXAMINERS' REPORT.

The report to the Parliamentary and General Purposes Committee of the Board of Examiners referred to the Advisory Committee which the Board of Education proposes to set up regarding the examination in preliminary knowledge which is to be instituted, and which examination it is suggested might be accepted by the Pharmaceutical Society as suitable for the registration of pharmaceutical students. The scheme was considered by the

Board of Examiners, and it was agreed to recommend the Council to accept the proposed "First Examination" certificate of the Department, subject to the conditions (a) that the examination includes all the four compulsory subjects of the Society's examinations, (b) that the existing list of accepted certificates remain valid, and (c) that representation on the Advisory Committee be granted to the Society. The Chairman communicated to the Board of Examiners the Council's decision in regard to co-operation in Pharmacopæia revision. The Board pledged itself not to undertake any work on another British Pharmacopæia without consulting the Council. This resolution is to be brought up at each first meeting of a new Board of Examiners.

DEPUTATION TO MR. MONTAGU.

The Secretary read a report of the deputation to Mr. Montagu regarding Drug Fund deficiencies, which is printed on p. 41.

The PRESIDENT remarked that the sum granted was handsome, and that the way it would be applied was to liquidate first the heaviest discounted areas.

Mr. Young said the officers of the Society deserve the thanks of the pharmaceutical community on the success which has attended the delicate negotiations of the last time months. He considered that the Commissioners have met chemists in a reasonable spirit, and that the expression of appreciation of the attitude of chemists in helping to work a difficult Act is a very valuable compliment. It is a valuable asset to have it on record that chemists have behaved in a reasonable and business-like manner.

Mr. Rowsell said the work of the deputation was one of considerable difficulty, and it was not possible to state in the meantime the progress of the negotiations. Thanks are due to the chemists of the country for trusting their representatives in the way they did. The official acknowledgment that Article 40 of the Regulations has proved non-efficient is valuable, and will lead to fresh methods being devised to meet extravagant prescribing. He considered that the Commissioners have met chemists in an exceedingly fair manner.

Mr. Harrison said the patience with which chemists waited has been rewarded in obtaining to some extent what was required. The loyal service of chemists under the Medical Benefit Regulations has proved to be the best guarantee of fair treatment. Great works of reform cannot be undertaken without some hardships being inflicted somewhere. If the principles laid down have been adhere to, it will be found that the advantages outweigh the disadvantages, and in regard to the lastnamed adjustments will be made wherever possible.

Mr. CAMPKIN referred to the exceptional ability and intelligence of Mr. Montagu with whem he had come in contact on other matters.

Mr. Hagon asked whether the acceptance of this money in discounted areas precludes pressing for surcharges from doctors.

Mr. GIFFORD thought the congratulations should be extended to chemists throughout the country for their loyal response and support of the Society's action.

Mr. SARGEANT thought the sum promised will be very inadequate to meet the case. He valued Mr. Montagu's admission that the discounting clause is not fair, and the suggestion that in framing future regulations for the payment of chemists there will be no discounting clause.

Mr. Parry said the only perfect satisfaction would be to receive payment in fall, but he acknowledged that more had been promised than he ever expected.

The President said all agreed that it would have been preferable to have received the whole of the money, but the limitations must be recognised. The best has been done in the circumstances.

The whole report of the Parliamentary and General Purposes Committee was then adopted.

AUDITORS' REPORT.

The President then formally presented the auditors' report, which is appended to the balance-sheet. The accounts are given at the end of this report,

COUNCIL CANDIDATES.

The Secretary reported that twelve nominations had been received for members of Council. Of these the following seven have signified their willingness to serve if elected:

Campkin, A. S., Cambridge.
Gibson, F. J., Wolverhampton.
Gilmour, J. P., Glaszow.
Keall, J., London.

Neathercoat, E. T., Weybridge
Sargeant, F. P., Leeds.
White, T. A., Portsmouth.

The President said that as the members nominated were just sufficient for the vacancies there would be no Council election this year. He then referred to the coming retirement from the Council of Mr. C. B. Allen and Mr. D. Gilmour. Mr. Allen had been connected with the Council for about twenty-five years, and had filled nearly every office in the Society always with greathonour to the office. He (the President) was glad that the retirement was made in happy circumstances of the respect of his fellow councillors. In respect to Mr. Gilmour, he regarded him as a type and a model of uprightness, he upheld his views without any thought of the consequences. He had undying respect for Mr. Gilmour on account of his honesty of opinion.

THE APRIL EXAMINATIONS.

The report on the April examinations showed that there were twenty-one Major candidates, of whom ten passed. There were also 200 Minor candidates, and of these seventy-five passed. Diplomas were granted to the successful pharmaceutical chemists.

This concluded the public business.

Financial Statements.

General Fund Account.

Expenditure (two years compared).	
1913.	1914.
To Advertisements 0 0 0	£ 8. 6 7.
Annuities 500 0 U	700 0 0
Annuities 500 0 0 Carriage of Books and Parcels 8 11 4	700 0 0 8 9 11
Carriage of Books and Parcels 8 11 4 Certificates of Death 24 11 0	21 13 9
Certificates of Death 24 11 0	21 13 9
Examinations: Minor and Major-	
Fees to Examiners and Travelling	
Expenses—	
	.060 9 0-
Scotland 380 6 0	309 3 6
Refreshments—England and Wales 43 8 5	48 16 7
Scotland 30 3 3	22 18 10
Apparatus, Drugs, Chemicals, Print-	
ing and sunday changes England	
and Wales	241 6 3
Scotland 96 7 8	83 12 2
[Totals: 1913, £1,907 2s. 6d.; 1914, £1,776 6s. 4d.]	00 10 0
[200003: 1010, 21,001 25. 00., 1014, 21,770 05. 40.]	
Furniture 000	20 6 9
Gas, Electric Light, Water, Coal, Clean-	
ing, Materials, etc 325 4 1	362 19 73
Gas, Electric Light, Water, Coal, Cleaning, Materials, etc	327 0 0
"Pharmaceutical Journal"; Balance of	
Account 2,186 16 1 2, Law Costs 146 17 4 Library:—Librarian's Salary 300 0 0	408 8 2
Law Costs 146 17 4	299 10 0
Library:-Librarian's Salary 300 0 0	300 0 0
Purchase and Binding of	
Title the control of	
Books etc 82 4 8	39 14 3
Books, etc 82 4 8	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.]	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1£14, £407 4s. 10d.] North British Branch:	
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1514, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and	312 10 0 94 14 10
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1514, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and	312 10 0 94 14 10 532 4 0
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc	312 10 0 94 14 10
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	512 10 0 94 14 10 532 4 0 65 2 11
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	512 10 0 94 14 10 532 4 0 65 2 11
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1514, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Taxes and Insurance Expenses, etc. Fuel, Light, Water, Cleaning, Service and Miscellances Expenses Vice and Miscellances Expenses 332 7 8	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5 346 19 2 1
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1914, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Members of Executive—Travelling Expenses, etc. Fucl, Light, Water, Cleaning, Service, and Miscellancous Expenses [Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.]	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5 346 19 2 t
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1914, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Members of Executive—Travelling Expenses, etc. Fucl, Light, Water, Cleaning, Service, and Miscellancous Expenses [Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.]	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5 346 19 2 t
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Curitor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1914, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Members of Executive—Travelling Expenses, etc. Fucl, Light, Water, Cleaning, Service, and Miscellancous Expenses [Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.]	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5 346 19 2 t
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	512 10 0 94 14 10 532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1914, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Taxes and Insurance Expenses, etc. Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.] Evening and other Meetings Totals: 1913, £977 7s. 3d.; 1914, £1,400 6s. 3d.	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1914, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Taxes and Insurance Expenses, etc. Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.] Evening and other Meetings Totals: 1913, £977 7s. 3d.; 1914, £1,400 6s. 3d.	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1514, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Members of Executive—Travelling Expenses, etc. [Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.] Evening and other Meetings [Totals: 1913, £1,284 13s. 3d.; 1914, £1,400 6s. 3d.] Register—Balance of Account [Taxes and Insurance [Taxes and Miscellaneone Expenses [Totals: 1913, £1,284 13s. 3d.; 1914, £1,400 6s. 3d.]	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc. [Totals: 1913, £516 12s. 3d.; 1514, £407 4s. 10d.] North British Branch: Resident Secretary in Scotland and Clerks—Salaries Taxes and Insurance Members of Executive—Travelling Expenses, etc. [Totals: 1913, £977 7s. 9d.; 1914, £1,039 13s. 6d.] Evening and other Meetings [Totals: 1913, £1,284 13s. 3d.; 1914, £1,400 6s. 3d.] Register—Balance of Account [Taxes and Insurance [Taxes and Miscellaneone Expenses [Totals: 1913, £1,284 13s. 3d.; 1914, £1,400 6s. 3d.]	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6
[Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum: Currtor Assistant's Wages and Sundry Expenses for Bottles, etc	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6
Totals: 1913, £382 4s. 8d.; 1914, £339 14s. 3d.] Museum:	532 4 0 65 2 11 95 7 5 346 19 2 1 80 6 3 310 9 11 089 16 4 59 18 0 777 4 6

				=	_
School of Pharmacy and Research Laboratory:-	£ 191			914	.7
Stipends of Professors and Share of		d.			
Lecturer, Assistant Lecturer, and	1,200 0	0	1,177	10	0
Apparatus, Chemicals, Specimens for	759	8 0	732	13	0
Lecture Classes, Prize Medals, Cer- tificates, Printing and Posting Pro-					
spectuses	551 10 4, £2,5		628 3 <i>s</i> . 9 <i>d</i> .]	0	9
Subscription to Chelsea Physic Garden Subscription to the Lister Memorial		5 0	0	0	0
Stationery, Printing, and Office Expenses	411 11		365	11	11
Sundries	131 12 6 1 2	2 3	14 <u>2</u> 21	11 3	9 6
ships Examinations Medals—Council and Herbarinm Compe-	9 14	1 2	14	17	3
Travelling Expenses and Refreshments	7 13	5 5	6	5	6
Local Associations and Parliamentary	612 16	0	704	6	8
Expenses: Meetings, etc Telephone Service	758 17 25 19	7		4 15	5 8
Subscriptions in aid of the Annual Table	78 15		78	15	0
Expenses in connection with the Inter-	5 5		0	0	0
at Vienna	52 2 26 0		0	0	0
Contribution to the Belgian Doctors' and	0 0		0 50	0	0
International Pharmacentical Federation	0 0	0	31	0	0
Balance added to Accumulated Funds 1	6,702 14 1,638 9	7 10	£18,339 397	17 8	2 8
	8,341 4	5	£18,737	5	10
xneomo (one genro comp	pared).	3.	15	914.	
By Examination-fees:		d.			d.
Minor (905 in '13, 857 in '14) 5 Major (60 in '13, 67 in '14)	5,961 6 179 11		5,942 193		0
Fees for Restoration to Position 1,	,218 0	0	1,539	6	0
1 Registration as Chemist and	80 17 47 4	0	35 : 44 :	14 13	0
Druggist	10 10 £7,755	0 5 10	0)8.7	0	0
On Legacy	57 16	4	0	0	0
Dividend on Port of London Authority Stock	0 0		78	3	0
Dividend on Water Board Stock on Loan to Benevolent Fund	34 11	6	52	18 :	10
Ground-rents	35 0 273 1	8.	32 1 209	16 4	3
Net Rent of 15 Bloomsbury Square On Deposit at Bankers	182 13	8	- 179 1	16	0
LIotals: 1915, £583 38, 2d : 1914		0 19s.	9d.]	1	6
Subscriptions 1,	,509 14	6		13	0
Members (7,099 in '13, 7,447 in '14) 7, Student Associates (484 in '13, 599	,453 19	0	7,819	7	0
Life Subscriptions	254 2 367 10	0	314 514 1	9 10	6 0
of Account	£8,648				
of Account	675 7	9	94 1	16	7

£18,341 4 5 £18,737 5 10 Bulance-sheet of the General Fund, 1914.

The assets of the Society, consisting of ground-rents, freehold house and building in Edinburgh, leasehold premises in London, Metropolitan Water Board (B) stock, Port of London Authority (B) stock, and War Loan, amount to 42,070l. 0s. 6d.; sundry debtors, 318l. 3s. 11d.; loan to Benevolent Fund, 500l.; cash balances, 663l. 3s.—total, 43,551l. 7s. 5d. The liabilities are: Sundry creditors, 508l. 10s. 10d.; examination-fees in advance, 1,781l. 19s.; school-fees in advance, 1.015l. 8s.; accumulated funds on school-fees in advance, 1,015t. 8s.; accumulated funds on December 31, 1913, 39,848t. 0s. 11d. Add balance of revenue account, 397t. 8s. 8d., making total of all liabilities

The Benevolent Fund.

The Benevolent Fund.

During 1914 the receipts amounted to 3,1651. 4s. 8d., made up of subscriptions, 1,573l. 9s.; ground-rents, 1,320l. 2s.; dividends, 1361. 4s. 5d.; interest on deposit account, 3l. 8s. 8d.; rent of "The Elms," Strawberry Hill, 1241. 10s. 7d.; rent of land at Shortlands, 7l. 10s. The expenditure was: On annuities, 1,430l.; grants, 1,304l. 16s.; interest, 97l. 11s. 3d.; stationery, etc., 57l. 5s. 2d.; surveyor's charges, 51l. 8s. 8d.; sundries, 10s.—a total of 2,941l. 11s. 1d. The balance, 223l. 13s. 7d., was added to accumulated funds. The investments and other assets of the

fund are valued at 45,338l. 13s. 2d. The donation account stood at 97l. 12s. 1d., this being added to accumulated funds. The Orphan Fund

had a revenue of 168l. 15s. 4d., and 120l. was expended on orphans, leaving a balance of 48l. 15s. 4d.

Reports of the scholarships and Waterall Legacy accounts

are also given.

The following auditors testify to the correctness of the reports: Messrs. I. Bourdas, Geo. Bult Francis, Charles Hodgkinson, F. Harwood Lescher, and John C. Umney.

Presentation to the President.

After the Council-meeting it is the custom of the members to lunch together at the Holborn Restaurant. opportunity was taken on April 7 to make a presentation to the President from the Council and staff of the Pharmaceutical Society to commemorate his silver wedding on March 26. The presentation took the form of a handsome silver tea service, consisting of kettle and spirit-stove, teapot, hot-water jug, cream-jug, sugar-bowl, and tray. Upon the tray was the following inscription:

Presented to the President and Mrs. Edmund White by the Council and Staff of the Pharmaceutical Society of Great Britain on the occasion of the 25th anniversary of their marriage, March 26, 1915.

The presentation, which was a complete surprise to the President, was made by the Vice-President (Mr. E. T. Neathercoat).

North British Branch. Evening Meeting.

An evening meeting was held at 35 York Place, Edin-Committee on the Drug Tariff.

Nr. Verification and a state of the chair. The Chairman intimated that Mr. J. P. Gilmour had been called to London in connection with the Departmental Committee on the Drug Tariff.

The first paper read was one by Mr. DAVID GILMOUR, Ph.C., entitled

PRACTICAL NOTES ON THE BRITISH PHARMACOPŒIA, 1914, in which the author dealt with the work from the point of view of the ordinary practical business man who has to adjust himself to the changes that have been brought about by the new work. Mr. Gilmour first dealt with the fact that the Pharmaceutical Society officially had no voice in the production of the Pharmacopeia, with the legal responsibility of the pharmacist in regard to checking unusually large doses, the transference of laudanum to Part I. of the Schedule of Poisons, and the lack of knowledge of the contents of the Pharmacopeia shown by medical men. He did not favour the suggestion that laudanum of men. He did not favour the suggestion that laudanum of the B.P. 1898 should still be sold over the counter, or with any of the proposals that have been made to avoid registra-tion. Reference was made to the apparent simplification of the strength of the dilute acids, which has converted the preparation of these acids into one requiring an analytical process. In regard to the revision in the requireanalytical process. In regard to the revision in the requirements of ethyl nitrite in spiritus withers nitrosi, the author said there is still as much care required in purchasing and storing the spirit. The process of preparing glycerinum ac. borici, which has only been altered in requiring the use of boric-acid crystals in place of powder, is still objectionable—first, because it is tedious and almost impracticable to the hour phagaint; secondly because of the difficulty to the busy pharmacist; secondly, because of the difficulty in dispensing it, owing to its thick consistence; and, thirdly, because its thickness makes it of little value as a throat-paint.

DISCUSSION.

Mr. Boa said that the transference of laudanum to Part I. of the schedulo is an improvement if it checks the laudanum-habit. The general sale of liq. morph, was practically stopped after the rectification of the schedule of poisons. The unworkable character of glycerin of boric acid is generally known to practitioners, and it is not uncommon to have it prescribed with rose-water, in which case it is necessary to shake the bottle.

Mr. A. Currie agreed that laudanum would fall into disuse as a household remedy when people are required to sign the poison-book. The influence of the technical expert rather than that of the practising pharmacist is apparent in the new Pharmacopeia.

in the new Pharmacopœia. Mr. Merson said with ordinary care there is no difficulty in keeping sweet spirit of nitre up to the minimum limit of the old Pharmacopeeia. It should be stored in small bottles in the dark. Mr. Cowie referred to the alteration in the strength of laudanum and to the need of maintaining the alcoholic strength of sweet spirit of nitre, so that ethyl nitrite is not lost by hydrolysis.

Mr. GILMOUR emphasised the necessity of tightly stopper-

Mr. Gilmour emphasised the necessity of tightly stoppering the bottle each time after measuring out a quantity.

Mr. Rutherford Hill, referring to the use of castor oil and laudanum as a popular remedy in frequent demand, said the sale of the mixture would not necessitate registration. If the stopper of the sweet spirit of nitre bottle is lubricated with glycerin the strength of the liquid is more easily maintained.

Mr. Macpherson, speaking in regard to the responsibility of the pharmacist for large doses, said the point seems to be that he is to satisfy himself not as to the largeness of

be that he is to satisfy himself not as to the largeness of the dose, but as to whether he has correctly interpreted the real intention of the doctor. It would simplify matters if in preparing the dilute acids both the acid and water were weighed.

Mr. Gilmour, in reply, said he made it a practice to discourage the sale of laudanum and headache-powders.

Mr. Peter Boa then read a paper on

Pasta Iodi et Amyli, B.P.C.

The preparation has been in use for at least thirty years; mentioned in the Extra Pharmacopæia of 1884; the formula was designed by William Martindale, and adopted in several hospital Pharmacopæias. The original formula

Starch			 	1
Glycerin Water	• • • •	• • •	 	2
	. **;.	• • •	 • • •	6
Solution of	iodine		 	1

Boil the starch, glycerin, and water together; when nearly cold add the solution of iodine.

The British Pharmaceutical Codex retains the constituents in the same proportion, but in each edition has a different version of the directions. The use of the waterbath is directed in the 1911 edition, which does not dissipate the moisture, with the result that the paste is sloppy, it exudes liquid readily, and does not afford the characteristic blue reaction with iodine, showing that the starch has been insufficiently cooked. By following the original directions a better product is obtained.

DISCUSSION.

Mr. Merson agreed that it would have been better to leave well alone.

Mr. Cowie said the gelatinisation of the starch gave a

better product.

Mr. A. Currie pointed out that to get the distinctive

Mr. A. Currie pointed out that to get the distinctive iodine reaction with starch it is essential that the envelope of the starch grain be ruptured. This would probably not take place at the lower temperature of the water-bath.

Mr. G. H. C. ROWLAND called attention to the great difference between the preparations; that made on the water-bath has a distinct odour of free iodine.

Mr. McDiarmid said the preparation known as iodide of starch was prepared by merely rubbing iodine with powdered starch, which indicated that the reaction took place without heating.

Mr. Rutherford Hill emphasised the importance of the chemical difference between the two preparations. Free

chemical difference between the two preparations. Free iodino would produce irritation, which it is the object of the combination to avoid.

Dr. Boon asked if any experiments had been made with the object of separating out the free iodine from the

different preparations.

Mr. Boa, in reply, said he had not made estimations of free iodine in the finished products, nor had he particularly examined the starch used. There is a considerable use of the preparation in hospitals; in some cases it is used as an application for broken chilblains. The formula in the Edinburgh Infirmary Pharmacopæia contains double the quantity of iodine as compared with others, but the base is the same is the same.

The next paper, by Dr. F. J. Wilson and Dr. A. A. Boon, was on

> THE ELIMINATION OF BROMINE FROM DIBROMOANISYLIDENEACETOPHENONE.

The authors said that in studying the properties of the unsaturated ketone pipcronylidenepinacolinc,

 $(CH_2: O_2: C_6H_3CH = CHCOC(CH_3)_3,$

prepared by condensing piperonal with pinacoline in alcoholic solution by means of aqueous sodium hydroxide), they

showed recently ("J. Chem. Soc. Trans.," 1910, 97, 1752) that when the dibromo derivative of this ketone is boiled with absolute ethyl alcohol one of the bromine atoms is replaced by an ethoxy (OC₂H₅) group. It was found subsequently that an analogous reaction took place when the dibromide in question is treated with absolute methyl alcohol (a methoxy group (OCH₃) replacing one of the bromine atoms), and it was thought that it might be of interest to study the rate of action of alcohols on this dibromide. Preliminary experiments, however, induced the authors to select the comparatively more simple compound dibromoanisylideneacetophenone (CH₃OC₆H₄CHBrCHBrCOC₆H₅) for this purpose. So far they have not been successful in attaining the object they had in view, but during the course of the investigations it was found that the bromine in dibromoanisylideneacetophenone could be eliminated when the latter is treated with various organic compounds. solute ethyl alcohol one of the bromine atoms is replaced by with various organic compounds.

The starting-point was anisaldehyde (CH₃OC₆H₄CHO), one of the constituents of oil of anise. When this aldehyde is condensed with acetophenone (or "hypnone," CH₃COC₆H₅) it is possible to obtain the unsaturated ketone anisylideneacetophenone.

By dissolving anisylideneacetophenone in the minimum

amount of chloroform, cooling the solution thus obtained, and then adding to the mixture the calculated quantity of and then adding to the mixture the calculated quantity of bromine dissolved in chloroform, dibromoanisylideneacetophenone (CH₃OC₆H₄CHBrCHBrCOC₆H₅) soon separates out. After the addition of light petroleum to the mixture the dibromide thus obtained is collected, washed with ether, and purified by crystallising from boiling benzene and light petroleum. The yield is nearly quantitative. The dibromide (white crystals) melts at 139°-140° ("J. Amer. Chem. Soc.," 1900, 22, 667).

The chemical behaviour of dibromoanisylideneacetophenone towards the organic compounds experimented with

The chemical behaviour of dibromoanisylideneacetophenone towards the organic compounds experimented with was referred to under the following heads:

I. The elimination of one atom of bromine from the dibromide by boiling the latter with absolute methyl alcohol or absolute ethyl alcohol, whereby a methoxy (OC13) or an ethoxy (OC245) group is respectively substituted for the bromine atom, hydrobromic acid being split off. Both of these alkoxy derivatives are solids, and were already known. The former (colourless needles) melts at 102°, and the latter (colourless needles) at 74°-75° ("J. Amer. Chem. Spc.," 1900, 22, 668-671).

II. The removal of bromine as hydrobromic acid from the dibromide, with the production of monobromo-anisylideneacetophenone, melting at 93°-94°. This reaction can be effected by the action of each of the following compounds on the dibromide: (a) Propyl alcohol; (b) isobutyl alcohol; (c) benzyl alcohol; (d) glacial acetic acid.

III. The elimination of both bromine atoms from the dibromide when each of the following compounds is allowed to act on it: (e) Isopropyl alcohol; (f) tertiary butyl alcohol; (g) acetone; (h) benzoin—anisylideneacetophenone being thus one of the resulting products in every one of these experiments.

one of the resulting products in every one of these experiments.

Summaries were given of the experiments under the different heads. The work is to be continued from other points of view.

Mr. Merson thanked Dr. Wilson and Dr. Boon for their interesting communication.

Mr. Cowie said he would like to ask if Dr. Boon had made any attempt to purify the substance by solution in an

alkyl bromide.

Mr. A. CURRIE said the fact that this substance loses bromine in contact with alcohol suggests the possibility of chemical change when distilling such things as eau de Cologne, where volatile oils are in contact with alcohol and the product frequently possesses an odour very distinct from the undistilled eau de Cologne.

Dr. Boon, in reply, said this substance is very stable, and there is no difficulty in preparing it, even in a crystalline

form, from petroleum ether or chloroform.

Votes of thanks terminated the proceedings.

April Examinations.

THE following results of the April examinations in London are communicated to us by the Secretary and Registrar of the Society:

MAJOR EXAMINATION.

The following ten candidates passed out of twenty-one: Bowles, R. W., Fakenham Coates, F. S., Ashbourne Collen, F. D., Blackheath Hennemann, I., Grimsby Highfield, F. C., Oakham Jones, A. E., Brixton Simpson, T. M., Morpeth Slack, H. F., Matlock Somer, A. J., London White, Dora F., Wandsworth MINOR EXAMINATION.

The following seventy-five candidates were successful out of 200:

of 200:

Adamson, E., Preston
Alcock, I. S., Stow-on-the-Wold
Babbage, A. L. B., Truro
Barber, N. B., Plymouth
Bee, J., Lcicester
Berelowitz, J., Willowmore
Bernstein, R., Cape Town
Berry, R. S., Blackpool
Blunsom, J. P., Wellingborough
Bourne, C. B., Bristol
Bowcock, Agnes Sclena, Wem
Bryan, J. M., Ampthill
Clarkson, C. R., Nottingham
Collett, J., West Norwood
Corrin, C. E., Port St. Mary
Coxon, Doris, Burton-on-Trent
Crabtree, T., Blackley
Cranko, W., Johannesburg
Crawshaw, F. W., Birmingham
Crooks, G. McM., New Shildon
Crossland, H., Ellaud
Jurtis, I. V., Hampstead
Davies, Hilda W., Ebbw Vale
Davies, Hilda W., Ebbw Vale
Davies, Hilda W., Ebbw Vale
Davies, G. F. B., Johannesburg
Entwisle, H. A., Churwell
Evans, G., Llandyssul
Evans, G., Llandyssul
Evans, H. R., Blaenau
Festiniog
Gorham, A. E., Whitchurch Evans, G., Llandyssul
Evans, H. R., Blaen
Festiniog
Gorham, A. E., Whitchurch
Hale, T., Clapham
Halkes, H. R., Lincoln
Harker, C., Preston
Harmon, J. H., Lutterworth
Heaton, H., Wigan
Hill, G. F., Birmingham
Hipkin, F., Boston
Hopkins, R. L., Barry
Howitt, F., Leicester

APRIL 10, 1915

Ingham, C., Burnley Kent, B., Boston Lacy, P., Huddersfield Martin, Margaret, Bolton Mathews, R. C., Drighlington Milbank, S. A., Bishop's Stort-ford Milbank, S. A., Bishop's Sto ford
Mortimer, Sadie, Blackburn
Morton, C., Derby
Narunsky, R., Rustenburg
Nightingale, C., Southsea
Norris, S., Burton-on-Trent
Pearce, S., Hinckley
Perkins, W. W., Coventry
Pettet, H. C., Maidstone
Pitchforth, R. J., Saltburn
Rees, M. F., Wolverhampton
Roach, W. F., Swiudon
Smith, J., Leeds
Smith, R., Grimsby
Snowden, F. R., Louth
Somerville, J. J., Ballybay
Spilsbury, F. E., York
Stephens, A., Leeds
Taylor, J. P., Barrow-i
Furness Barrow-in-Furness
Thomas, A. M., Cardiff
U'Ren, C. C., Plymouth
Vose, A. E., Uttoxeter
Wand, C. O., Grantham
Wassall, Janet, Edgbaston
Webster, S. A., Selby
Whiteside, R. C., Liverpool
Wilde, Samuel T., Bristol
Williams, E. S., Kidwelly
Wilson, A., York
Wolk, J., Cricklewood
Wood, Mary Eleanor, Leeds Furness

Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £:) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," March 31, 1915.)

"CAPLIM"; for artificial manure (2). By C. A. Potter, Ltd., The Intensive Egg Farm, Ferndown, near Wim-By C. A. Potter,

borne. 366,120.
"Volcano"; for medicated wines (3). By yards, 258 High Holborn, W.C. 363,219. By Volcano Vine-

"KINIPIRINE"; for medicinal chemicals (3). By Naamlooze Vennootschap Bandoengsche Kininefabriek, Keizers-gracht 173, Amsterdam. 365,468.

gracht 173, Amsterdam. 505,408.

"THE 'WHITE MOUNTAIN' PINE EXPECTORANT" on label, with mountain and pines ("White Mountain Pine" disclaimed); for an expectorant (3). By Parke's Drugstores, Ltd., 65 Harmood Street, N.W. 365,783.

"Blancoplast"; for medicinal chemicals (3). By Koninklijke Pharmaceutische Handelsvereeniging, Dooiers-

klijke Pharmaeeutische Handelsvereeniging, gracht 27-35, Amsterdam. 366,079.

"Dexine"; for non-medicated surgical instruments, etc. (11). By Dexine, Ltd., Abbey Lane, Stratford, E. 365,410.

"AGRIPPA"; for all goods (11). By J. G. Ingram & Son, Felstead Street, Hackney Wick, N.E. 366,256.

Felstead Street, Hackney Wick, N.E. 366,256.

CABACAS CHOCOLATE" on label device in yellow, red, and gold; for chocolate (42). By J. S. Fry & Sons, Ltd., 25 Union Street, Bristol. 364,960. (Associated.)

MAINSALL"; for food-substances (42). By Smith & Sons, 44-48 Magdalen Street, Norwieh. 365,390. (Associated.)

MOLLY"; for mineral and aërated waters (44). By W. & J. Burrow, Devereux House, Belle Vue Terrace, Great Malvern. 365,799.

ALRSALARIS"; for mineral and aërated waters (44). By J. Bingley, Ph.C., 18 Langham Place, Northampton. 366,003. (Associated.)
VINTAGE"; for all goods (43). By the Torula Syndicate, Ltd., 40 Brazennose Street, Manchester. 365,932.

Winter Session

of Meetings of Trade Associations.

(See also "Insurance Act Dispensing.")

Cardiff.—A meeting of the Cardiff Pharmaceutical Association was held on March 25, Mr. S. B. Eason (President) in the chair. There were sixteen members present, Mr. J. Murray (Hon. Secretary), and Mr. W. J. Uglow Woolcock (Secretary of the Pharmaceutical Society). An invitation was received to attend a meeting of Glamorgan panel chemists on March 26. The meeting then discussed the question of inadequate profit on proprietary medicines. Mr. Hagon proposed a resolution, which was carried, asking the Proprietary Articles Trade Association to ensure that all proprietary articles placed on the protected list should in future yield a minimum profit to the retailer of 20 per cent. The meeting was then thrown open to the Barry and Newport (Mon.) Associations, and Mr. Woolcock gave an address, dealing chiefly with Insurance matters. A discussion took place afterwards regarding the relative cock gave an address, dealing chiefly with Insurance matters. A discussion took place afterwards regardling the relativo positions of pharmacists in the United Kingdom and on the Continent. Mr. Woolcock combated the view that pharmacists in this country are worse off than their confrères on the Continent. The shortage of apprentices was also referred to in connection with the long hours of the drug-trade.

Fifeshire.—A well-attended meeting of the Fifeshire Pharmaceutieal Association was held at Thornton on March 31, Mr. Thomas Yule (Cowdenbeath) in the chair. The Secretary (Mr. Charles Stewart, Kirkcaldy) read the report of the Pharmaceutieal Committee for 1914, which stated that nearly 107,000 prescriptions had been dispensed during the year the evergen wise being 15, 132d, per form stated that nearly 107,000 prescriptions had been dispensed during the year, the average price being 1s. 0\(^3\)d. per form. Unfortunately, there was a deficiency of over 700\(^1\). In the Drug Fund, which meant a serious position for many chemists on the panel. Mr. Yule outlined what had been done by the Committee to look after the interests of the members in the way of ehecking abnormal expenditure, etc. He pointed out that while the state of matters with regard to 1914 was far from satisfactory, the outlook for 1915 was extremely serious. Accounts for January had been discounted to the extent of 10 per cent., February 30 per cent., while not more than 50 per cent. of the March accounts is likely to be paid. This is due chiefly to two causes, the first being extravagant prescribing and the second an entirely abnormal condition due to the war, a second an entirely abnormal condition due to the war, a second an entirely abnormal condition due to the war, a large number of workers having joined the Forces. As these men are all healthy, the loss of their contributions to the Drug Fund is not only a serious one, but the contributions, which were of the highest value to the Fund, inasmuch as it means a diminished Fund with a greater proportion of unhealthy lives to provide for from the Fund. Not only is the Fund diminished, but for the opening months of this year the incidence of sickness was greater than for the corresponding period of 1914. A discussion then ensued on the serious state of matters thus disclosed, and while various suggestions were put forward, it was ultiwhile various suggestions were put forward, it was ultimately agreed that the Insurance Committee be asked for guarantees that the balances would be paid, otherwise the members could not continue to supply at such a serious loss. On the suggestion of Mr. Scott (Inverkeithing), it was agreed to support the proposal that the Checking Bureau now being set up should be for pricing as well.

being set up should be for pricing as well.

Great Yarmouth.—The annual meeting of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on April 1, the President (Mr. A. E. Riehmond) in the chair. In making his report, the Secretary noted with satisfaction that the attendance of members at the meetings throughout the year had been well kept up. The President (Mr. Richmond) and the Secretary (Mr. J. Shearman) were re-elected, and with Messrs, Poll, Goddard, and Hill form the Committee. The President mentioned that Mr. P. R. Hill, a member of the Association, had joined his Majesty's Forees, and the meeting wished him a speedy and safe return.

London (W.'.-A meeting of the Western Pharmacists' Association was held at the Restaurant Frascati on April 7. Mr. A. R. Melhuish (President) in the chair. Arising out Mr. A. R. Melhuish (President) in the chair. Arising out of the minutes of the previous meeting, it was proposed by Mr. Barrett, and seconded by Mr. Lloyd, that Messrs. J. Keall and E. T. Neathercoat be adopted as the Association's candidates for the Pharmaceutical Council. This was agreed to unanimously. [There will be no election this year.—Editor C. & D.] After Mr. B. Wilkinson had reported on the work of the London County Executive. and a number of questions regarding Insurance matters had been answered by Mr. G. A. Tocher, the Chairman ealled upon Mr. Arthur Hyde Hills, B.A. (Cantab.), A.I.C.A., to

read a paper on Bookkeeping. Mr. Hills began by stating that he was well aware of the difficulties experienced by ehemists in regard to bookkeeping, and one of these difficulties was that their såles were many and for small amounts. He dealt with the subject generally, enumerating the books required for double-entry and for single-entry bookkeeping, and explained their functions. He insisted on the necessity of analysing sales receipts, so as to enable the trader to arrive at the profits of any particular section of his business. With the aid of a blackboard Mr. Hills illustrated his system, laying particular stress on the methods of checking errors. A long and interesting discussion followed, taken part in by Messrs. Hetherington, Marshall, C. T. Allan, Pratt, G. A. Tocher, Browne, Barrett, Melhuish, Cole (a colleague of Mr. Hills), Shirtliff, and Brooks, and Mr. Hills answered a number of questions which had been put. On the call of the Chairman, the cordial thanks of the meeting were awarded to Mr. Hills.

Public Pharmacists' and Dispensers' Association.—

Public Pharmacists' and Dispensers' Association.—'A meeting of the Public Pharmacists' and Dispensers' Association was held in the lecture-theatre, 17 Bloomsbury Square, on March 31, when Mr. J. Hassall France presided over a large attendance of members and friends, including many ladies. The Chairman introduced Dr. R. L. Sherlock, F.G.S., who delivered an interesting and muchappreciated lecture on Geology and Scenery. The lecture, which was illustrated by an excellent series of lanternslides, dealt chiefly with the formation of 'rocky coast-line, river valleys, and mountain spurs. On the motion of Mr. G. W. Gibson (Hon. Secretary), seconded by Mr. R. Welford, a cordial voic of thanks was awarded to the lecturer. Votes of thanks were also passed to the President and Council of the Pharmaceutical Society for granting the use of the lecturer, and to Professor Greenish for the use of the lantern.

President and Council of the Pharmaceutical Society for granting the use of the lecture-theatre, and to Professor Greenish for the use of the lantern.

Southend-on-Sea.—The monthly meeting of the Southend-on-Sea Association of Pharmaeists was held on March 29, when a very full attendance of members assembled to hear a paper by the President (Mr. S. F. Body) on Bacteriology. After referring to some facts of historical interest, and to the work of those who have been notably associated with the science of bacteriology; from Leeuwenhoek to Koch, the lecturer dealt with the classification of bacteria, and, for the purposes of his paper, classified them as (a) spherical, (b) rod-like, and (c) spirillæ, outlining briefly the morphological characteristics of each class and the difference between spore-bearing and non-spore-bearing microorganisms. The conditions necessary for the life of bacteria were enumerated as follows: (a) Food-supply, under which heading the lectured gave some account of the yarious kinds of culture-media in common use for the growth of particular micro-organisms, and emphasised the value of the different media for differentiating between organisms, owing to the preferences exhibited by certain bacteria in regard to food-supply and to the chemical changes they induce in the media, such as the production of gas or acidity; (b) moisture; (c) temperature; (d) oxygen—the difference between aerobic and anaërobes: (e) darkness. A few remarks on pathogenic bacteria and immunity led on to the use of serums and vaccines, the (d) oxygen—the difference between aerobic and anaerobic bacteria and facultative aërobes and facultative anaerobes: (e) darkness. A few remarks on pathogenic bacteria and immunity led on to the use of serums and vaccines, the principles underlying serum and vaccine therapy being clearly explained. The author concluded his paper by a brief explanation of the methods of preparing serums and vaccines, and the theories of phagocytosis and opsonins. In response to requests, Mr. Body briefly explained the methods of standardisation of vaccines and serums, the agglutination reaction, and the method of determining the opsonie index. The thanks of the Association were awarded to Mr. Body, to Dr. Cleveland Smith for the loan of his microscope, and to Parke, Davis & Co. and Burroughs Wellcome & Co. for specimens and slides lent. A letter was read from the Hon. Secretary (Mr. C. Goode) resigning his office owing to the fact that he is shortly taking up his residence in London. His resignation was received with regret, and the members wished him success in his new venture. Mr. S. F. Body was elected to succeed him upon the Southend Insurance Committee and Sub-Committees. Mr. J. G. Cowe relinquished his office of Treasurer in favour of Mr. Misselbrook, to take up the duties of Hon. Secretary in Mr. Goode's place. Mr. Goode retains his interest in all his appointments in Essex County Insurance work. (See p. 42.) ance work, (See p. 42.)

West Bromwich.—Mr. I. M. Withers presided at a meeting in the Y.M.C.A. Rooms on Tucsday, March 30, when Dr. Selwyn Edwards read an interesting paper on Thought and the Nervous System. He dealt with the subject in a most entertaining manner from physical, psychological, and ehemical standpoints.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

In regard to quotations for synthetic chemicals and other products obtained hitherto chiefly from Germany and other Continental countries now engaged in war, it should be noted that some of these are strictly nominal, and are not general, but are prices of limited supplies quoted by individual holders and second-hand dealers. Most offers at present made by circular are "without engagement," and subject to the articles being unsold. In many instances higher prices than those quoted in this Report, for various reasons, are being paid. As regards British products, there is difficulty in obtaining supplies for prompt delivery, these including bromides, iodides, bismuth and mercurial salts, atropine, morphine, codeine, etc.

42 Cannon Street, E.C., April 8, 6.30 p.m.

THIS having been a broken week on the markets, business on the whole has been quiet. Values are, however, well maintained, and there has been a further uplift in several of the synthetic chemicals, including guaiacol carbonate, phenolphthalein, phenacetin, and acetyl-salicylic acid, which is almost unobtainable. Borax and boric acid have been advanced by 2l. and 3l. per ton respectively. Hydrobromic acid, pure terebene, and turpentine are also higher. Increased Indian excise-duty is responsible for an advance in Bombay cannabis indica, and much higher prices are cabled from U.S.A. for Cartagena ipecacuanha. Cod-liver oil is the turn cheaper, as are lemon and bergamot oils. Coca-leaves at the Amsterdam sale were decidedly cheaper and in poor demand. Quinine and opium are steady, cloves firm, dextrin, farina, lime oil and lime-juice, and vanillin are very scarce. Salicylates unchanged. It is becoming increasingly difficult to purchase so-called fine chemicals from the United States, a general advance in prices and difficulties of shipment often hampering business, while, of course, no further supplies are going forward from Germany to the United States. In the case of imports from the latter source the Customs authorities here now closely scrutinise chemicals and drugs, and several shipments have been "held up." The object is, of course, to prevent imports of direct German origin reaching this country viâ America, but the possession of an official "permit" smooths away many difficulties.

Higher	Firmer	Easier	Lower
Acetosal. acid Antimony Borax Borie acid Cannabis indica Cumin-seed Guaiacol carb, Hydrobromic acid Ipecauanha (Cartag.) Peppermint oil (Eng.) Phenolphtha- lein Terebene, pure Turpentine	Carbolie aeid Glucose Linseed oil Phenacetin	Ammonia sulphate (outports) Bergamot oil Canary seed Castor oil (E.I.) Cod-liver oil Lemon oil Mereury Shellae	Coca-leaves (Amst. auction) Mint oil (Jap. c.i.f.) Orris oil. Sarsaparilla (V.C.)

A drug-auction will be held next week.

Cablegrams.

Bergen, April 8.—The cod-fishing continues unsatisfactory; market for finest Lofoten non-freezing medicinal oil is quiet at from 175s. per barrel and upwards.

New York, April 8.—Business in drugs is fair. Opium is NEW YORK, April 6.—Dusiness in drags is rain. Opinin is 10c. lower, at \$7.40 per lb. for druggists'. Cartagena ipecacuanha has advanced by 50c. to \$2.40. Sarsaparilla is cheaper at 10c. for Mexican, and Canada balsam is also lower at \$6.00 per Amer. gal. Short buchu-leaves have been reduced to \$1.40 and long to \$1.20 per lb.; both menthol and peppermint bil are unchanged.

London Markets

ACETANILIDE has further advanced, sellers quoting 5s. 6d. to 6s, per lb. Prices from U.S.A. are above this parity.

ACETYL-SALICYLIC ACID is practically unobtainable from dealers, and the rates paid for retail lots have varied from 18s. to 22s. 6d. per lb., with even higher prices named.

ALCOHOL.—The "total prohibition" scare and an anticipated big increase in the spirit-duty has been responsible for largo withdrawals from bond. Distillers in some for largo withdrawals from bond. Distillers in some instances are asking for cash on delivery, owing to the large outlay in payment of duty. "Total prohibition" is quite unlikely, but further restrictions on the sale of spirits is investible and an increase in duty is more in the sale of spirits is inevitable, and an increase in duty is practically certain.

AMMONIUM SCLEPHATE.—Quiet. London is unaltered, 25-percent. ammonia offering at 121. 17s, 6d. per ton net naked at works; Hull. 24-per-cent., is 13l. 7s. 6d., Liverpool is 13l. 8s. 9d. to 13l. 10s., and Leith 13l. 17s. 6d., less 3½ percent. in bags f.o.b.

Aniseed is slow of sale, at 40s. per cwt. for good Spanish. ANTIMONY.—Chinese crude has been sold on spot at 55t, per ton, with 60t. asked. Regulus is much dearer, and 100t. per ton market is eventually anticipated. Present spot value of English regulus 99-per-cent. pure is 83l. to 87l. net, and Chincse 83l. net.

ARSENIC is in fair demand, the value of best English powder in small lots being 181. 10s. in easks and 191. 10s. in kegs.

BERGAMOT OIL.—With quict markets at sources and locally, prices have eased somewhat, 38 to 39 per cent. esters offering at 11s. net per lb. on spot, and 10s. 3d. net e.i.f. for forward shipment.

Borax has been advanced by 2l. per ton to 22l. for crystals and 23l. for powder. *Boric acid* is 3l. per ton higher, at 35l. for crystals and 37l. for powder.

Browides.—Although the official rates are as quoted last week, the figures are nominal, owing to the inability of makers to supply the salts in the absence of raw material.

CAMPHOR (REFINED).—Business has been done in Japanese 2½-lb. slabs at 1s. 4¼d. c.i.f. for April-May shipment, the spot value being 1s. 81d. and 1-oz. tablets 1s. 9d.

CANARY-SEED is neglected, and quotations are nominal at 95s. to 100s. per quarter for fair to good quality.

CANNABIS INDICA.—Owing to another increase in the Excise-duty, the price of genuine Bombay tops on the spot is now 7s. per lb., which has been paid for several cases.

CARAWAY-SEED is firm, at 35s. per cwt. for fair Dutch on the spot.

Carbolic Acid.—The output and makers' stock are all practically under Government control. The value of 40° C. ice crystals is about 1s. 8d. per lb. in large-bulk packing.

Castor Oil. - Recent arrivals of good seconds Calcutta in Liverpool are offered in limited quantity at 5d. per lb.

CHLORAL HYDRATE is quoted 6s. to 6s. 6d. per lb. for dutypaid crystals.

CINCHONA.—At the bark-tender held at Amsterdam on March 30 it was announced that the equivalent of 32,943 March 30 it was announced that the equivalent of 32,943 kilos. of quinine sulphate were taken up by the quinine-manufacturers out of 58,093 kilos. offered. This represented 6,241 packages, weighing 545,960 kilos., and the average unit paid was 6.20c. per half-kilo, being unchanged. At the auction of pharmaceutical bark, held at Amsterdam on March 31, 407 bales and 251 cases offered, weighing 37,223 kilos., of which 201 bales and 109 cases, weighing 16,479 kilos, were sold, the quinine-content being 421 kilos. The prices paid ranged from 18c, to 45½c. The bark shipments from Java to Europe during March amounted to 524,000 Amst. lb., against 926,000 Amst. lb. in 1914. The total shipments (January-March) were 2,868,000 Amst. lb., against 3,895,000 Amst. lb. in 1914.

CITRIC ACID is steady at 2s. 6d. per lb.

CLOVES remain firm, with sellers of fair Zanzibar at 7d. on spot, and March-May and April-June shipment at 6_8^3d . e.i.f. d.w.; 500 bales for June-August delivery have been sold at 6_8^5d .—value of this position is now 6_4^3d .

Coca-Leaves.—At the auction held at Amsterdam on March 31 2.427 packages, weighing 132,049 kilos., offered, the total alkaloidal-content being 2.160 kilos., of which 248 packages, weighing 11.862 kilos, with a total alkaloidal-content of 160 kilos, sold at prices varying from 11c. to 3s. 9d. to 4s.

22e., the average unit being 11.01c., against 15,77e. per half-kilo. in December last. The above result indicates a poor demand. The exports from Java during March ambanted to 2,120 packages, against 1,632 packages in 1914; the total exports for the three months (January-March) amounted to 7,570 packages, against 8,186 packages.

COCOA-BUTTER.—Business has been done at 1s. 43d. per lb.

Con-Liver Oil -Our Bergen correspondent writes on March 29 that the expected considerable increase in the fishing did not take place. To-day's report gives the total results up to March 27;

Catch of eod (millions)	1912	1913	1914	1915
Yield of c.l.o. (hect.)	54 3	21.8	45.2	36.7
Yield of liver for raw oils	42,200	15,100	34,600	32,400
(hect.)	6,700	3,900	6.400	5.800

The market is quite unsettled, fluctuating almost daily. The market is quite unsettled, fluctuating almost daily. At present there is an easy tone, but owing to the great fall in the exchange for sterling in Norway it cannot be quoted below 185s, per barrel for prime non-congealing oil.—An Aalesund advice, dated March 25, states that, in spite of the fact that the output of oil is so far just as large as that of last year, prices have been steadily advancing and are still tending upwards. The main reason for this is the coormous demand from industrial quarters, as, owing to the scarcity of all industrial oils, yery large as, owing to the scarcity of all industrial oils, very large quantities of non-freezing medicinal oil are being used for industrial purposes. There is no doubt, therefore that as soon as the demand from medicinal quarters sets in prices will go higher, the stocks available in this country having already been reduced to a minimum.

An Aalesund report, dated March 29, states that the fishing has in several districts been impeded by stormy weather. Livers are rapidly becoming smaller: thus in weather. Livers are rapidly becoming smaller; thus in Lofoten now 600 to 680 are required to fill 1 hectolitre. The market is quiet, and we quote, without engagement, 185s. c.i.f. East Coast U.K. for finest new season's non-freezing Lofoten oil.

According to cabled advices received from Norway, the official statistics up to April 3 are as follows:

	Livers	Yi∈ld of
Catch of	for raw	c.l.o.
cod	oils (hect.)	(hect.)
Lofoten, 1915 13,200,000	1,044	10 821
do. 1914 10,400,000	855	8.760
Whole country, 1915 42,800 000	6 340	35 295
do. 1914 52,600,000	7,830	39 825

COPPER SULPHATE is firm, at from 281. 10s, to 281, 15s. perton for the usual Liverpool brands.

CORIANDER-SEED is quiet, with small sales at 12s, to 12s. 6d. per ewt. for good Morocco.

CREAM OF TARTAR is firm and unaltered at 145s. for 98-percent.

CUMIN-SEED is in demand, and the price is higher. The stock on the spot has been cleared at 82s, per cwt, for good Morocco, and 85s. to 90s. is asked for parcels affoat.

DEXTRIN.—With the cessation of supplies from Holland, prices of both dextrin and farina are advancing, and spot holders talk of much higher figures—viz., 35l. per ton for dextrin and 26l. to 27l. for farina.

FENUGREEK-SEED is unchanged, at 10s. per cwt. for fair Morocco.

Galls.—Blue Persian continue to sell at 80s. per ewt. on spot.

GLUCOSE.—For American liquid of the usual brands possibly 16s, would have to be paid, as supplies are difficult to get.

GUALACOL CARB. has advanced by a further 2s. per lb. to about 14s. to 15s,

HEXAMINE is quoted at from 3s. 6d. to 3s. 9d. per lb.

HYDROBROMIC ACID.—British makers have advanced their prices, quoting dil. 10-per-cent. at 1s. 3d., conc. s.g. 1.208 (25-per-cent.) 3s. 1d., conc. s.g. 1.375 (40-per-cent.) 4s. 6d., and cone. s.g. 1.500 (50-per-cent.) 5s. 11d. per lb. net cash.

IPECACUANHA.—For shipment from the United States the much higher price of 11s, 6d. per lb. c.i.f. is quoted for Cartagena, and spot holders have raised their asking-price to 10s. Matto Grosso is quoted at from 14s. to 15s., according to quality and seller.

The Lycaon has brought 44 packages East Indian, which may be offered at the auction next week.

Lemon-juice.—English-pressed is quoted at 2s. per gal. LEMON Oil is a flat market at somewhat easier prices, shippers quoting 3s. 6d. to 3s. 7d. c.i.f., and on the spot

LIME OIL.—The first-hand market has been practically cleared of West Indian distilled, and the quotation is now 3s. 6d. nominal.

LINSEED is steady, at 57s. 6d. to 62s. 6d. per quarter for good to fine quality.

MENTHOL is steady, with spot sellers at 11s. per lb., and April-May at 10s. c.i.f.

METHYL SALICYLATE is very firm at about 8s. per lb., with

little coming forward.

been done in Kobayashi-Suzuki at 2s, 9d. to 2s, 7½d. c.i.f. for April-June shipment, being cheaper. At the close sellers ask 2s, 9d. c.i.f. The spot price is 3s, 2d. to 3s, 3d. The exports from Japan during January amounted to 39,985 kin, against 36,159 kin and 35,641 kin in January 1914 and 1913 respectively. MINT OIL.—In Japanese dementholised a fair business has

MORPHINE.—Makers are still very busy; the first-hand quotation for hydrochloride powder remains unaltered at

13s. 6d. per oz. net.

Oils (Fixed).—Linseed is firm and dearer, at 35s. in pipes on spot and 36s. 6d. in barrels. Cotton is steady, at 29s. 3d. in pipes, 31s. 3d. for pale refined in pipes, and 33s. 6d. to 35s. 3d. for sweet refined in barrels, all spot. Ceylon pipes, 31s. 3d. for pale refined in pipes, and 33s. 6d. to 35s. 3d. for sweet refined in barrels, all spot. Ceylon Coconut on spot is 50s. in logsheads and 48s. in pipes, oil afloat offering at 45s. 9d. c.i.f.: Cochin on spot is quoted 56s., and afloat 48s. 6d. c.i.f.: London pressed for March-April delivery is 42s. Ordinary brown crude Rape is 39s., and English refined in barrels 41s. to 42s. Lagos Palm in Liverpool is quoted 36s. 9d., and spot 39s. Turpentine is dearer at 37s. 3d., with a good business, over 2,000 barrels changing hands on Wednesday alone.

OPHUM is steady, but very quiet, large consumers preferring to work off their stocks. The spot value of Turkey druggists' is from 24s. to 25s. per lb., according to test, and Persian is from 17s. to 22s. We notice further arrivals of Turkey opium viâ the United States.

ORRIS OIL.—Cheaper raw material having been available, distillers have reduced their price of ol. iridis flor. concrete

to 20s. per oz.

PEPPERMINT OIL of finest English distillation has advanced about 2s. per lb., as first-hand stocks have been considerably reduced; the value is about 35s. net.

PHENACETIN.—From 16s. to 16s. 6d. are eurrent rates.

PHENAZONE is practically unobtainable.

PHENOLPHTHALEIN is very firm at from 18s. to 18s. 6d. per lb.

POTASH PERMANGANATE.—Sales of limited quantities have been made up to 150s., with 160s. and even more asked, according to seller.

QUININE.—A small sale (10,000 oz.) of Java and Amsterdam was made previous to the holiday from second-hands at 1s. $1 \frac{1}{2}d$. per oz. This was an exceptional sale, more current rates being from 1s. $1\frac{3}{4}d$. to 1s. $1\frac{7}{8}d$.

The landings in London during March werc 59,504 oz. and the deliveries 92,992 oz., leaving a stock on March 31 of 2,585,120 oz., against 3,250,416 oz. in March 1914, or

664,296 oz. less.

SALICYLATES are unchanged. A fair quantity of American sodium has been sold for forward delivery (probably not available for six or eight weeks) at up to 10s. per lb., but for prompt delivery 11s. to 12s. is quoted. Salicylic-acid powder is quoted 7s. 6d. to 8s. on the spot, and 7s. 6d. near at hand.

SALOL is very scaree at from about 7s. to 7s. 6d. SARSAPARILLA.—Mexican is quoted 9½d. on spot.

SENNA.-A fair quantity of Alexandrian has been sold recently for export. In the absence of supplies, Tinnevelly is retailed at about 11d. for single bales of bold greenish leaf.

SHELLAC remains dull, with small sales of TN Orange on a basis of 60s. to 61s.; AC Garnet is quoted 62s. and GAL 00s. Futures inactive, and prices nominal.

TAMARINDS.—East Indian are scarce on spot at the moment, the value of fair black being 19s. 6d.

Tartaric Acid is firm at 1s. $6\frac{1}{4}d$. per lb.

TEREBENE.—The list-price of pure has been advanced 2d. to

VANILIN is very scarce on spot, and it is also difficult to get offers from the United States; the nominal value is 27s. to 28s. per lb.

WAX, JAPANESE.-For April-May shipment business has been done at 49s. e.i.f.

Arrivals of Chemicals and Drugs.

During the period March 30 to April 7 inclusive the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

specifically described:

To London.

Acetic acid (N. York) brls. 407,
(Philadelphia) brls. 526,
(Rotterdam) cks. 8, blns. 50
Aloes (N. York) cs. 39, (South
Africa) cs. 38
Anisc oil, star (Hong-Kong) 125
Antimony (Bordcaux) cks. 40
Argol (Catania) bgs. 263, (Messina) cks. 50, (Naples) cks. 120, (Barcelona) cks. 113
Barytes sulphate (Bordcaux) cks. 87
Bay oil (Grenada) cks. 5

cks. 87
Bay oil (Grenada) cks. 5
Benzoin (Singapore) cs. 24
Bismuth ore (Sydney) cks. 6
Bachu (Cape Town) bls. 95
Candany-seed (Cadiz) bgs. 975
Cardamoms (Colombo) cs. 63
Cascin (Charente) bgs. 554
Cashew-nuts (Calicut) 230
Cassia oil (Hong-Kong) cs. 35
Chemical products (Treport) cs.
8, pkgs. 106, (Bordeaux) cs.
8, (N. York) pkgs. 416, (Paris) 9
Citrate of lime (Catania) brls.

(Faris) 9 Citrate of lime (Catania) brls, 132, (Messina) cks. 52 Cloves (Singapore) bgs. 56 Coconut oil (Singapore) pps. 13, pns. 20, hds. 6, cs. 8,500, (Rotterdam) cks. 55, (Cochin) pps. 195, hds. 241

Cod-liver oil (Christiania) cs. 12 Cream of tartar (N. York) cks. 20, (Bordeaux) cks. 13 Cumin-seed (Malta) bgs. 47 Dragon's-blood (Singapore) cs.

Drugs, medicines, etc. (N. York) cs. 47, (Boulogne) pkgs. 61

Ergot (Oporto) cs. 8 Essential oils (N. York) cs. 67, (Amsterdam) dms. 2, cs. 2, (Catania) cs. 254, (Messina) cs. 48, pkgs. 105, (Palermo)

cs. 46, pags. 106, (Tatelmo) cs. 6
Gelatin (Dieppe) cs. 18, (Bordeaux) 30, (Paris) bls. 114
Gentian (Bordeaux) bls. 35
Ginger (Bombay) bgs. 500, (Calicut) 100
Glycerin (Natal) dms. 42
Gum arabic (Bombay) bgs. 96
Gum copal (Macassar) bkts. 984, bgs. 657, (Hong-Kong) 96, (Singapore) bgs. 72, cs. 100, (Amsterdam) bgs. 173
Gum damar (Singapore) 120
Gums, undescribed (Suez) bgs. 271, cs. 240, (Bordeaux) bgs. 314, (Adelaide) bgs. 405
Herbs (Nantes) bls. 32
Indigo (Bombay) cs. 20, (Calcutta) 10
Ipccacuanha (P. Swettenham)

Ipecacuanha (P. Swettenham)

bls. 44
Lead acetate (N. York) cks. 11
Lemon-juice (Messina) pps. 120,
brls. 84

oris. 84 Lemon oil (Sicily) pkgs. 120 Lime-juice (Trinidad) cks. 20, lhd. 1, (Dominica) cks. 47, pns. 26, pps. 117, dms. 22, hds. 15

Linseed (R. Plate) bgs. 31.449, (Bombay) bgs. 4,696, (Calcutta) bgs. 11,599 Lithopone (Rotterdam) 60 Magnesite (Rotterdam) bgs. 163 Manna (Palermo) es. 4
Milk-sngar (Amsterdam) 100
Mineral waters (Treport) es.

Mineral white (Bordcaux) bgs.

Olive oil (Boulogne) pkgs. 17, (Malaga) brls. 152, (Leghorn) jars 40, cs. 5, (Genoa) brls. 10, cs. 7, (Seville) pkgs. 216 Opium (Genoa) cs. 25 Orange-peel (Malta) cs. 5

Perfumery (Boulogne) cs. 95, (N. York) 12, (Havre) 5 Potash, caustic (Philadelphia) cs. 42 Potash permang. (Rouen) cks. 9, (Amsterdam) cks. 29 Quinine sulph. (Amsterdam) cs. 47

40
Roots, barks, leaves, etc. (N. York) bls. 11
Saccharin (Treport) cs. 8, (Paris) cs. 10
Saltpetre (Calcutta) bgs. 465
Correctively (N. Verbilde 67

Saltpetre (Calcutta) bgs. 460
Sarsaparilla (N. York) bls. 57
Senega (Philadelphia) bls. 10
Senna (Suez) bgs. 5, cs. 26, (Paris) bls. 8
Shellao (Havre) cs. 77, (Calcutta) 150; button lac 50
Soda hypo. (N. York) kgs. 672
Soda nitrate (Mejillones) bgs. 46 159 46.159

Soua hitrate (Mejillones) ogs. 46,159
Soda phosphate (N. York) 10
Soy (Hong-Kong) cks. 20
Sticklac (Calcutta) bgs. 136
Sulphur (Catania) brls. 1,644
bgs. 4,796
Tamarinds (Calcutta) crts. 50
Tartar (Messina) cks. 32
(Barcelona) brls. 117, (Alicante) bgs. 409
Tragacanth (Bombay) pkgs. 63
Turpentine (Lisbon) dms. 41
(Pasages) pkgs. 1,325, (Seville) dms. 120
Vanillin (Rotterdam) cs. 5
Wax, bees' (St. Nazaire) 17, (Lisbon) 35, (Calcutta) 35
Zinc oxide (N. York) brls. 800, (Rotterdam) cks. 125

To Liverpool. Argol (Oporto) bgs. 300, cks.

Argol (Oporto) bgs. 300, cks. 20
Borate of lime (Antofagasta) bgs. 5,077
Borie acid (St. John) brls. 300
Caraway-seed (Rotterdam) 100
Castor oil (Calcutta) cs. 650
Chemical products (N. York) cs. 9, dms. 17
Chiretta (Calcutta) 27
Cream of tartar (Oporto) 4
Drugs, etc. (Havre) cs. 133, (New York) cs. 108, pkgs. 40; medicines cs. 252; medicines (Boston) cs. 255
Honey (Valparaiso) brls. 40
Lime-juice (N. York) pns. 33
Olive oil (Seville) brls. 573
Opium (New York) cs. 32
Orchella-weed (Lisbon) bls. 18
Oxalic acid (Boston) brls. 129
Perfumery (Havre) cs. 130, (N. York) 40
Quillaia (Valparaiso) pkgs. 25
Saltpetre (Calcutta) bgs. 500
Soda nitrate (Iquique) bgs. 5,481
Vanilla (N. York) crts. 4
Zinc oxide (N. York) brls. 1,000

Vanilla (N. York) crts. 4 Zinc oxide (N. York) brls. 1,000

To Manchester. Acetic acid (Philadelphia) brls. 151
Ammon. nit. (Christiania) 241
Calcium carbide (Odda) dms. 5,750, (Sarpsborg) dms. 1,100 Carbon black (Philadelphia) brls. 1,290
Dextrin (Philadelphia) bgs. 1,505

1,505
Fruit essences (Rotterdam) 7
Glucose (N. York) brls. 120
Gums, undescribed (Alexandria) cs. 300
Lithopone (Rotterdam) cks. 160
Nut oil (Rotterdam) cks. 90
Oxalic acid (Philadelphia)
cks. 40

Soda chlorate (Philadelphia) kgs. 1,200

Thorium nitrate (N. York) es. Zinc oxide (Philadelphia) 500

NEW ZEALAND HONEY.—The total production of honey during 1913 was 13,012 cwt., and beeswax 250 cwt. Taking 5d. per lb. for the honey and 1s. 3d. for the wax, the value of the output for the year was 30,363l. and 1,754l. respectively.

Manchester Chemical-market.

April 5.

The effects of the Easter holidays are still observable, and there was a very poor attendance on to-day's 'Change. It is stated that extravagant prices are asked in certain quarters for caustic soda, but there is little obtainable in first-hands, and other sorts are cleared. So far as home trade is concerned, bleaching-powder moves steadily into consumption, and inquiries are subject only to immediate acceptance on the part of buyers. The same may be said of ammonia alkali, in which there is little offering even on open order. Sulphate of copper rules in buyers favour; still, quotations are nominally unchanged at, say, 29l. to 29l. 5s. per ton, delivered Manchester. White powdered arsenic is rather lower at 18l. to 18l. 10s. per ton, delivered Manchester. Permanganate of potash is higher, although on spot there is little to be had at, say, 125l. to 130l. per ton. Tartaric acid is up to 1s. 6\flact{1}d. to 1s. 6\flact{1}d. Carbonate of potash is still nominal. Coal-tar products show little change, although there is a better feeling in sulphate of ammonia. Quotations are: 12l. 17s. 6d., London; 13l. 10s. Hull; 14l., Leith; and 13l. 10s., Liverpool; and 13l. to 13l. 5s. f.o.r. Manchester. Carbolic acid shows little change. Crystals, 39°-40° C., 1s. 4d. to 1s. 6d.; crude, 60°. East and West Coast ports, 3s. 5d. to 3s. 6d., ex works. Benzols unchanged. The effects of the Easter holidays are still observable, and unchanged.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Berlin and Hamburg markets under dates up to March 23:

AGAR-AGAR, in consequence of increased demand, has advanced, fair strip not being obtainable under m.475.

Ammonia.—The manufacturers are much behind with

BALSAM PERU maintains the high prices of about m.30 per

BALSAM FERU maintains the high prices of about m.30 per kilo. The artificial product is quoted m.25 to m.26.

BALSAM TOLU.—In more demand, and dearer at from m.7 to m.7.50 per kilo. for fair hard.

BARIUM SALTS are in active demand. Prices have advanced considerably, and nitrate is only obtainable at from m.55 to m.60 per 100 kilos.

BENNOR ACID — Santhatia in conted at from m.450 to

Benzoic Acid.—Synthetic is quoted at from m.450 to m.500 per 100 kilos.

Benzoin has been in better demand. Palembang has been sold at from m.140 to m.150 per kilo., according to quality; first-hand stocks are exhausted. Siam is firm; the stocks are only small. From m.7.50 to m.14 per kilo. is asked, according to quality. Sumatra is quoted at from m.290 to m.375.

CANTHARIDES.—Small quantities which have been imported have found a ready sale at m.28 to m.30 per kilo.

CASCARA SAGRADA.—Dull; from m.145 to m.150 per 100 kilos. has been paid, and m.160 is asked.

CEVADILLA-SEED is firmer in consequence of increased demand; m.160 per 100 kilos. is asked.

CITRIC ACID.—The demand is increasing, and m.580 per 100 kilos. is quoted.

COCAINE HYDROCHLORIDE is in slight demand, and prices

are unchanged. CREOSOTE.—The increase in cost of production and raw material has resulted in an advance of creosote from beechwood-tar by m.50 per 100 kilos.

Ergor is firm, but quiet. Russian is offered at m.625, and Spanish at m.650.

IPECACUANHA is steady. Cartagena is quoted at from m.24

to m.25, and Rio from m.34 to m.35 per kilo.

LYCOPODIUM is firmer in consequence of prohibition of exportation. Stocks in Hamburg have much diminished, as large quantities have been sold; m.6.50 per kilo, in barrels and m.6.60 in cases has been paid. Later.—The demand has much increased, and the price is now m.10.

MASTICE has been sold cheaply in large quantities at

demand has much increased, and the price is now m.10.

Mastich has been sold cheaply in large quantities at from m.7.50 to m.3 per kilo., but m.9.50 is now wanted.

Menthol is firm, and unchanged at m.35 per kilo.

Olls (Essential).—Star-anise has been sold at m.15.50 per kilo.

Eucalyptus of high test is unobtainable. Pine oil is dearer at m.285 per 100 kilos. for Siberian. Paraguayan Petitgrain is quoted m.26 per kilo. in Hamburg. Peppermint is neglected; H.G.H. is m.16, and Todd's crystal-white is m.16.50 per lb. Japanese Mint is somewhat cheaper at m.12.50 (paid). Mirbane has been sold at m.1.50 per kilo.

Olls (Fixed) and Fars.—Though the prices of Castor are high, there is a large demand. First-pressing has been sold at from m.295 to m.300, according to quantity. Second-pressing at m.285. Medicinal quality is still to be had in small quantities at m.320 per 100 kilos. Coconut is higher, German offering at from m.165 to m.175. Medicinal Cod-liver has considerably advanced in price, as the demand suddenly increased enormously. Large quantities have been bought for speculation. At the beginning of March offers at

from m.140 to m.150 per 100 kilos, prevailed, and on March 6 m.200 was paid in the Hamburg market; on March 9 even m.210, and further advance is expected. Refined Cottonseed is nominal at m.152. Earthnut is very firm at m.152. Linseed advances steadily in price. Holland asks 66.50 guilders, free in Hamburg, equal to m.128.50 per asks 66.50 guilders, free in Hamburg, equal to m.128.50 per 100 kilos. in barrels delivered Hamburg; a large business has been done. German has been sold at m.125; Dutch at from m.118.50 to m.119.50. Fatty Acids of Linseed Oil have been sold at from m.118 to m.120, but m.127 is now asked. Maize (American) is wanting. Lagos Palm is scarce at m.160. Palm-kernel is very firm at m.166. Rape is quiet at m.149. East Indian Soya is quoted at m.150. Tallow is very firm; food-tallow is m.175 to m.185; for soap-manufacturing m.160 to m.175 is quoted. Hankow Wood is higher at m.120.

Wood is higher at m.120.

QUILLAIA.—Cut is still in active demand, and has been sold at m.175 per 100 kilos; m.210 is wanted now (March 23). SAL AMMONIAC.—On account of the high price of raw material makers have advanced the price of crystals to m.53 and chemically pure to m.58 per 100 kilos.; there is

good demand.

SENNA is still obtainable in very small quantities in Hamburg. *Pods* have been sold at m.110, and *Leaves* at from m.130 to m.160 per 100 kilos.

SHELLAC has undergone little change. TN is quoted at from m.195 to m.205; fine orange, m.210 to m.218; good lemony from m.237.50 to m.250; finest lemon, m.265. AC Garnet is m.215.

SPIRIT-PREPARATIONS have advanced in consequence of the advance of the spirit on March 1. Ether has advanced by m.17, Collodion by m.13, and Alcohol by m.15 per 100 kilos.

Strontium Salts.—Nitrate costs from m.70 to m.75 per 100 kilos.

TARTARIC ACID.—The Convention has advanced the price by m.20 per 100 kilos. The demand is very active. Cream of tartar (90-per-cent.) is m.270 to m.280. TARTARIC ACID.

VANILIN is firm, though the demand has temporarily diminished. Makers have frequently advanced their prices,

and now quote m.53 per kilo.; second-hands offer at m.52.

Waxes.—Carnauba.—Fatty grey is decidedly higher, and is quoted at from m.410 to m.420 per 100 kilos. Sandy grey is cheaper.

Bees' is higher on account of increased demand. Good bleached is not obtainable under from m.385 to m.390; middling sorts are from m.365 to m.370. Japanese vegetable may be imported free of import-duty; spot is m.210 per 100 kilos.

Wormseed.—Large quantities of the monopoly stocks have been sold, and the monopoly has raised its price to m.450 per 100 kilos. Seed poor in santonin is obtainable at m.300

to m.320.

Linseed Oil.

The fact that trading conditions in oil and seed have continued brisk at a much higher range of prices compared to the close of last year is an indication that the under-lying conditions are healthy. There has been quite an active demand for oil in the home trade, which, coupled with the quantities absorbed for Scandinavian and other neutral ports, has resulted in a notable decrease of the large stocks which existed at the close of last year. While the liberal supplies of oil have no longer a depressing influence on sentiment, as testified by the fact that the premium on spot delivery has increased to about 4l. per ton over the value of forward delivery, the position of seed has been simultaneously strengthened by the considerable shrinkage in the shipments advised so far this year. The quantities of seed afloat are now only 670,000 quarters, after dwindling to a little below half a million quarters a few weeks ago. whereas the total a year ago was not much under one and a half million quarters. It is obvious that these two im-portant factors go a long way towards explaining the re-markable strength of near oil. The River Plate shipments have now assumed more important dimensions, and should steadily increase over the next few months, for the move-ment of supplies had been hampered by the efforts made to push wheat, maize, and oats clearances under the stimulus of very high prices. The deficit in the world's shipments of linseed, against the previous year, however, is not expected to be made good for some considerable time, and the exportable surplus from India is likely to fall very much exportable surplus from India is likely to fall very much short of original prognostications. Another point is that, whereas the diversion of supplies to American ports has been nil so far this year, they must be expected to assume quite heavy dimensions within the next six months or prior to the new American crop becoming available. The Argentine surplus is undoubtedly large, but indications do not seem to suggest the advent of unwieldy supplies of seed, The demand for forward seed has latterly been upset somewhat by apprehensions as to a possible cancellation of what by apprehensions as to a possible cancellation of export permits for oil to neutral countries.

Italian Mercury Production.

The production of mercury in Italy during 1914 amounted to 1,072,629 kilos., or 2,364,700 lb. This was divided among the following mining firms and companies: Società anonima Miniere dei Monte Amiata, 740,025 kilos.; Società anomina Stabilimento minerario del Siela, 181,332 kilos.; Eredi Swarzenberg, 91,045 kilos.; Società an. Miniere Cinabrifere Bagni San Filippo, 46,220 kilos.; F. Menicanti, 14,007 kilos.

Italian Olive Oil.

The Society of Italian Olive-cultivators, having heard rumours that the Italian Government would shortly probibit the exportation of olive oil, has caused precise inquiries to be made through its President (Senator Raffaele quiries to be made through its President (Senator Raffaele de Cesare), who has forwarded to the Minister Daneo a memorial setting forth the serious losses which would result from such a prohibition both to the class of olive-growers and to Italian commerce. Minister Daneo has replied denying that any such prohibition was being contemplated for the moment, but a pledge could not be given for the future, as it was impossible to say what exportation prohibitions might become necessary. At the same time, he has given the assurance that, whatever steps the Government might be driven to take, there would be careful preservation of the interests of the olive-cultivators as a class.

Brazilian Ipecacuanha.

Brazilian ipecacuanha is exported from Brazil chiefly through the ports of Bahia, Pernambuco, Rio de Janeiro, Corumba, and San Luiz. The total exports (according to the U.S. Consul at Rio) during the last five years and the amounts taken by each country were as follows:

Year	Total	France	Germany	United Kingdom	United States	Uruguay
1910	Lb. 42,368 56,954 60,045 69,271 75,078	Lb. 346 — 302 —	Lb. 9,960 13,827 22,201 16,731 9,506	Lb. 14,141 21,636 31,189 19,337 14,147	Lb. 7,028 11,140 5,864 132 9,991	Lb. 11,239 10,005 791 32,769 41,434

The exports to Uruguay were in transit to Europe (principally London).

inchona-cultivation in Madagascar.

Since 1896 endeavours have been made to cultivate cinchona in Madagascar, and after several vain attempts some rootlets from Java cinchona-plants developed. These were sent to Madagascar by Mr. E. Prudhomme in 1900, and some months ago several samples of the bark furnished by these plants were sent for analysis to the laboratory of Professor E. Perrot, in Paris, who, in co-operation with Miss C. A. Huber, of Amsterdam, determined the amount of alkaloids. The samples were from plants the bark of which contained 11.70 to 12.24 per cent. of total alkaloids. Among the samples was bark from stems, branches, and roots. The highest amount of total alkaloids which occurred in the bark of stems or branches was 3,64 per cent., and in the bark of root 10.25 per cent. The highest amount of quinine sulphate in the branch bark was 2.33 per cent., and in that of roots 3.59 per cent. The value of these Madagascar barks is therefore very small; probably the climate is not fit for cinchona-cultivation. The Colonial Department, however, has not yet given further some rootlets from Java cinchona-plants developed. Colonial Department, however, has not yet given further particulars of the circumstances of growth and cultivation, and these must be waited for before a definite judgment can be pronounced. At all events, the samples sent by the Department for Agriculture, Trade, and Colonisation at Madagascar do not compare with Java cinchona-bark in any respect.

Madras Government Cinchona.

Madras Government Cinchona.

Supplementing the paragraph published in a recent issue on the report of the Madras Cinchona Department for 1913-14, we find that the total quantity of bark obtained from Government estates was 445,737 lb., against 460,965 lb. in 1912-13 and 402,494 lb. in 1911-12. The total included 327,930 lb. of dry bark obtained by uprooting old trees in 46.48 acres. The crop of the plantations was supplemented by 1,045,804 lb. of purchased bark, of which 520,044 lb, was imported from Amsterdam and the rest bought from local planters. The quantity of bark worked up was 564,762 lb., as compared with 569,000 lb. during 1912-13 and 755,900 lb. during 1911-12, and the outturn was 26,516 lb., or 4.70 per cent., as against 26,070 lb., or 4.58 per cent., in 1912-13. The increase of 0.12 per cent. in the outturn is attributed to improvements in the manufacturing turn is attributed to improvements in the manufacturing

processes, for the bark used contained less quinine sulphate processes, for the bark used contained less quinine sulphate than that worked up in 1912-13. Judged by the sample analysis taken prior to manufacture, the quinine actually extracted represented 82.3 per cent. of the quantity available, whereas in 1912-13 the percentage was only 75. The average cost of a pound of quinine sulphate manufactured was Rs. 9-1-11, as against Rs. 7-12-5 in the previous year, but part of the increase was only apparent, being due to a change in the method of calculation adopted in accordance with the special instructions received from the Government of India. On the other hand, there was a real advance, owing to an increase in the cost price of bark worked up. The figures of the total issues are: Quinine sulphate, 30,405½ lb.; febrifuge, 916½ lb.; quinine hydrochloride, 55½ lb.; and amorphous alkaloid, 36½ lb. Under the first of these heads there was an increase of over 5,000 lb. as compared with the previous year, owing to the larger demands from the Central Provinces and the medical larger demands from the Central Provinces and the medical depôts of Madras and Bombay and the Central Gaols at Rangoon and Aligarh. The aggregate sales of quinine at post-offices were 2.282\frac{3}{4} lb., and were almost exactly the same as in 1912-13. The financial result shows a profit of Rs. 78,231 (5.231/.). The manufacture of cinchona amorphous alkaloid was initiated during the year, the sale price being fixed at Rs. 4 per lb.

The Java Cinchona Agreement.

The annual report of the Association for Promoting the Interests of Cinchona-cultivation states that the number of members, which was nineteen last year, has diminished by three. Heeren J. Louet Feisser and S. C. Van Musschenbroek, two active members, who helped to bring about the agreement between planters and quinine-makers on July 16, 1913, have died. The agreement, it will be recalled, was signed in April 1914. Meanwhile (the report states) the result of the agreement during the first year (from July 16, 1913, to July 15, 1914) proved to be excellent. The unit, which was 5c. at the beginning, soon advanced to 6.20c., and has remained so ever since. The second year of the agreement began under the same favourable auspices. The first allotment in July 1914 took place in the normal way, one-tenth part of the contracted yearly quantity being purchased from the cinchona-planters by the quinine-makers. Then the war broke out, and the makers were unable to purchase the agreed quantity of quinine in the bark on account of many circumstances, such as the im-Interests of Cinchona-cultivation states that the number of bark on account of many circumstances, such as the impossibility of transmitting samples and bark, the prohibition of exportation of quinine from Germany, the impossibility of exportation of quinine from Germany, the impossibility of obtaining the required chemicals in some countries, the impossibility of selling quinine except for immediate use. The first allotment after the outbreak of war, on August 27, 1914, did not take place, and in the following allotments the makers could only buy a part of the quantity they had engaged to take. This uncertainty brought the agreement into sovieus danger, and as it was conventioned. had engaged to take. This uncertainty brought the agreement into serious danger, and as it was very desirable to put an end to the uncertainty a compromise was accepted between the planters and quinine-makers, upon the initiative of Mr. J. W. Ramaer, President of the Cinchona Bureau. According to this compromise, the makers bind themselves to buy as much bark as corresponds to the quantity of quinine they hope to sell during the period of war, so that the stocks of bark the manufacturers will have at the end of the war will be about the same as the stocks they had at the beginning of the war. Moreover, the makers have engaged in the first eight tenders that will take place after peace is made to buy so much more quinine in bark as they are able to sell above the agreed quantity. All the cinchona-planters have agreed to this quantity. All the cinchona-planters have agreed to this compromise, and thus the crisis, it is hoped, has been averted. The report lays emphasis on the fact that all European firms interested in cinchona should be members of the Association.

BRITISH ARSENIC.—The production of arsenic in the United Kingdom in 1913 amounted to 1.695 tons, valued at the mines at 16,616l., against 2,194 tons, valued at 17,90ll., in

A RECENT SHIPMENT of concentrated lime-juice from the Government factory at St. Lucia, West Indies, fetched the unprecedented price of 52l. 10s. per pipe in the London market.

SIAM STICKLAC.—The exports from Bangkok from April 1, 1913, to March 31, 1914, amounted to 904 tons, valued at 36,044*l.*, an increase of 14,378*l*. over 1912-13; the bulk of the shipments went to Singapore. The best quality is obtained from the Chiengmai, Nakawn, Lampong, and Luang Prabang districts, and an inferior quality from the Ubon district.

Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to

Commissions Wanted for Army Dispensers.

Commissions Wanted for Army Dispensers.

Sir,—I notice that a member of the Pharmaceutical Society writes to the "Daily Chionicle" pressing the claims of sergeant-dispensers of the R.A.M.C. to the commissioned rank as either first or second lieutenants. The time seems singularly opportune, now that lieutenants in the R.A.M.C. are to be made captains, for advances to be made by the Society to the War Office on this point, and it is hoped that members will back us up in trying to obtain what is only just recognition of a professional. to obtain what is only just recognition of a professional capacity.

Yours faithfully,

SERGEANT-DISPENSER R.A.M.C. (E28/14.)

Serbian Relief Fund.

SIR,—On behalf of the Serbian Relief Fund, I wish to make a special appeal to chemists, manufacturers, and their friends to give either a donation or in kind—i.e., drugs, surgical dressings, chemicals, disinfectants, blankets, linen, surgical dressings, chemicals, disinfectants, blankets, linen, clothing, etc. None can better appreciate than chemists the exquisite misery of a plague-stricken country, like heroic little Serbia, without surgical aid, nurses, and medical comforts; her few and not too well equipped hospitals overflowing, and a shortage of the most elementary medical stores. The dire distress, misery, and disease have probably been greater in Serbia than any other part of Europe, and possibly because it is further removed from us we have known less of it. Serbia by her invaluable, serwe have known less of it. Serbia by her invaluable services to the Allies has covered herself with glory, but the price she has had to pay has been a heavy one. Her scanty resources are unequal to meeting the present campaign; the horrors of war have been intensified by serious paign; the horrors of war havo been intensified by serious outbreaks of typhus, typhoid, small-pox, dysentery, etc. On the reliable testimony of such distinguished correspondents as Captain Bennett and Mr. W. H. Craufurd Price we learn of all the horrors of an absolute plague. Too frequently where the typhus-stricken fell, there he remained to die, and ofttimes for days remained unburied. Thanks to the Serbian Relief Fund, four units (200 to 300) have now been sent out for nursing and sanitary work, each conjured. been sent out for nursing and sanitary work, each equipped been sent out for nursing and saintary work, each equipped with appliances and drugs, with sanitary engineers, surgeons, nurses, orderlies, etc. Besides the maintenance of these units the Committee has expended more than 20,000% in blankets, clothing, surgical accessories, drugs, etc. All glory to those noble women and men who have volunteered their services and have risked their lives in this perilous undertaking. Surely their courses is as great as that of undertaking. Surely their courage is as great as that of our brave soldiers and sailors, who have given and are giving their lives for us. As I said good-bye and God-speed (on board the s.s. — sailing from Liverpool last Friday) (on board the s.s. — sailing from Liverpool last Friday) to that noble and self-sacrificing band of nurses, doctors, and others, I could not but admire their cheerful spirit and determination to do good work; with them there was no fear or vainglory. Let us see if we chemists and our friends at home cannot also do something more to render a little help to spare some of the misery and perchance rescue some lives from the jaws of death.

Cheques should be sent to Sir Edward Boyle, Bart., Hon. Treasurer Serbian Relief Fund, 55 Berners Street, London; inquiries to Mr. F. G. Howe, Organising Secretary; and parcels, clothes material, antiseptics, drugs, bandages, dress-

ings, indiarubber sheeting, gloves, chloroform, ether, cocoa, tea, meat essences, etc., to Mrs. Carrington Wilde, 5 Cromwell Road, London, S.W. It may be possible for British chemists to do something distinctive. Our local Associations might do a little, and the whole might be contributed to a central fund. In making this appeal I am not unmindful of the many claims that have already been made upon us, or of the good work that has already been accomplished by many Relief Committees.—Yours truly,

50 Oxford Street, Southampton. WILLIAM BATES.

Where is the Profit?

Sir.—Being informed that some chemists' books in fully paid areas show profits of 60 and 70 per cent. on National Health Insurance work, it seemed to me that my calculations, which show a deficit of about 5 per cent. in an area which is being paid two-thirds of the account rendered, must need some correction, and so I append them for that purpose, and hope criticism may elicit some more favourable result.

Yours faithfully,

Devonport.

H. Barrett.

Calculation made from the Data of the First 200 Prescriptions Dispensed in March, from 1 to 16 Inclusive.

Actual Cost				Amount D	ue		
Value of drugs used at list price, with the exception of waters, which in the case of aq. chlorof. the chlorof, only was charged, other waters the value of the concentrated used was charged. 100 labels at 5s. per 1,000, using half fresh Gross corks 2 quires paper and odd boxes Value of labour to dispense, assuming they were done at the rate of 100 daily Clerical lahour to produce bill (3 daysper 1,000, 10 hours' work, 6s, 8d. a day) Establishment charges, calculated as worth 10 % of the total sum due	1	3 .3 4	8 6 9 8 4	Drugs at Tariff rate Dispensing-fees Total Less amount unpaid (one-third); deficit of which could bave been increased by if drug list prices were charged for waters.	3 1 5	4	8 8 4

There are such points as increased stock, storage, risks of loss by breakage, fire, etc., to be remembered, and not least increased liability to

Minimum Wage of £3 a Week.

SIR,—Judging by past efforts, it is not possible to get the qualified men to combine for their own interests. Glancing through the Supplement, I have been pained to note the small salary offered for qualification, and think it would be a move in the right direction if every qualified it would be a move in the right direction if every qualified man, no matter what age or experience, when offering his services demanded a minimum wage of 3*l*, a week irrespective of other details. This would not affect men of exceptional ability, whoso services will always command more; but surely the increased value of qualification, due to the Insurance Act and other causes, calls for the wages of a skilled artisan. Many of the large stores have no definite scale of wages, and I have actually heard unqualified proprietors boast gleefully how cheaply they have purchased the necessary qualification. Surely this state of things is unbecoming to our self-respect.—Yours truly,

QUALIFIED MAN. (58/37.) QUALIFIED MAN. (58/37.)

The Efficacy of Splitting Examinations.

The Eincacy of Splitting Examinations.

Sir,—Although I am among those who "took Latin," and even performed the herculean task of getting the six Preliminary subjects on two certificates, I have nothing but good words for the "lowering of the standard." The facts are very plain. Youths who have a propensity for "passing" at school do not want to be bothered with the drugstand and worths who enter the trade without pressing as ing" at school do not want to be bothered with the drug-trade, and youths who enter the trade without passing are swelling the hosts of the permanently unqualified. It is the man with 30s, a week and about an hour's glorious liberty between work and bed for whom we have to make allowances, and no doubt the wise innovation of splitting the examination into three will enable him to come into line. In the same way it is to be hoped that the authori-ties will use their power to divide the Minor examination into two parts. There is little to be said in favour of turninto two parts. There is little to be said in favour of turning a good man away because of a weakness, say, in botany or practical chemistry; he should be allowed to offer his weak subject on another occasion, and be credited with those subjects he has passed in. Again, whatever may be said about the wholesale side, the "packed and readymado" condition of the modern retail business does not call

for such highly pharmaceutical pharmacists as in the old infusion and decoction days; and if, in our pursuit of an ideal in quality, we lose sight of the necessity for quantity, we are likely, in the words of Jack Junior, to "come a cropper." I am not a woeful prophet, nor do I want hearts to bleed over this woeful dirge, but I must point to the grocers who have filched our drugs, to the barbers who have thrived on our "toilette," to the oilmen and seedsmen who so far have not abused the confidence placed in them when they were given our "weed-killers." If there is to be "pharmacy for pharmacists," there must be no shortage of retailers. of retailers.

I have another "wail": Who does the Army dispensing? Why are not Minor men working that branch of medicine? Is it that there are not enough Minor men to do it? Will anybody say that what is good enough for the British Army is good enough for the British public? I hope not.

Yours faithfully,

PESSIMIST. (234/17.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

A Strange Order.

A City house received the other day an order for a "Box of Capsules, Male and Female." After some little cogitation it was decided that male-fern capsules were wanted, and this proved to be right.—(53/35.)

A Bogus Traveller.

Ayrton, Saunders & Co., Ltd., Liverpool, inform us that two medical men in London have been victimised by a man calling upon them, saying that he was engaged by the company to fill a vacancy, but was without means to pay his railway fare. The statement is entirely without foundation, and, in the event of a man calling upon chemists, they should take warning from this note.

Hardness in Cows' Udders.

The following ointment has been found most beneficial:

Ol. olivæ ... živ. Ceræ flavæ ... Emp. galbani Зij. 3iij Melt together and stir in-Mellis liquefact. 3vj.

The ointment is to be rubbed in gently.

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

- $A.\ L.\ S.\ (60/70).$ —Any person may use the description "ophthalmic optician," it not being protected by law.
- G. C. (53/57).—The Maltese pharmaceutical qualification is not accepted for registration in Great Britain as a chemist and druggist without examination.

Gramo (60/33).-(1) The law in Ireland as regards the wholesale to retail or wholesale dealers is the same as in Great Britain—namely, qualification under the Pharmacy Act is unnecessary. (2) An unqualified person who manufac-Act is unnecessary. (2) An unqualined person who manufactures any preparation containing poison may not legally execute orders for such preparation transmitted to him by private individuals by post, unless the private individuals are wholesale dealers trading as such. (3) A partnership between a qualified person—e.g., a registered druggist—with an unqualified person, such as the one mentioned in the previous replies, does not legalise trading in poisons by the unqualified person.

Miscellaneous Inquiries.

Phynn (53/25).—The "Civil Service Guide," published at 18. 6d., and obtainable through booksellers, contains particulars of the Government situations for professional chemists. The Government Customs and Excise laboratories are the principal places, and some appointments are opened without examination to B.Sc.s.

W. E. C. (60/14).—Strychnine is used greatly for the EXTERMINATION OF RABBITS. It is mixed with malt perfumed with oil of anise.

- A. E. M. (38/11).—Dextrin, known also as British gum, is chiefly prepared by the action of heat on starch. The starch is first dried and then heated to 212°-275° C. in rotating sheet-iron drums, the heat being obtained from an oil-bath or direct. By moistening air-dried starch with dilute nitric acid, and drying at a low temperature, less heat is required, a temperature of 110° to 120° C. being sufficient Anether method into each or teach part to the control of the c extract of malt. Dextrin finds many uses as a substitute for natural gums in the manufacture of confectionery, in leather-dressing, in calico-printing, and as an adhesive for envelopes and labels. The chemical formula is expressed as $n(\mathrm{C_6H_{10}^{\scriptscriptstyle 1}O_5}).$
- R. M. H. (43/38).—You do not say for what purpose you want the book, and for that reason we cannot advise you fully. We have not seen the latest edition, but expect that some errors in the previous edition will have been removed. It is possible to have Measles more than once. We know individuals who have had the ailment twice and three times, but they are the kind who will catch anything that comes along.
- M. B. A. (46/53).—To make a DISPENSING SOLUTION OF SODIUM SALICYLATE (10 grains in 1 drachm) from salicylic acid and sodium bicarbonate, dissolve 340 grains of sodium bicarbonate in 7 oz. of distilled water, and stir in 552 grains of salicylic acid. Boil the solution to drive off residual carbonic-acid gas, and to ensure that the solution is very faintly acid add a little more salicylic acid if necessary, using litmus-paper as an indicator. Cool and make up to 8 oz with water.
- A. W. (41/54).—Separating Wool from Cotton.—There are various methods of detecting and separating wool from are various methods of detecting and separating wool from cotton, these being either microscopic or chemical processes. By the microscope wool can be readily detected if it has been previously subjected to the action of picric-acid solution and washed; only wool-fibres retain the yellow colour. Wool stains yellow with iodine and sulphuric acid, while cellulose-fibres become bluish-violet in colour. Vegetable-fibres can be dissolved in solution of copper oxycarbonate (made by mixing solutions of copper sulphate and sodium carbonate) in ammonia solution, wool being very little affected by this treatment. If a cloth composed of wool and cotton is boiled with strong potash solution very little affected by this treatment. If a cloth composed of wool and cotton is boiled with strong potash solution for a minute or so, the wool is dissolved, and the cotton left in a skeleton-form. A commercial process for separating wool and cotton consists in immersing the fabric in hydrochlorio acid, squeezing out the acid, and drying at a high temperature. This carbonates cotton, silk, or vegetable fibres but does not effect the weal. fibres, but does not affect the wool.
- M. D. G. (38/20).—The Deposit in Easton's Strue varies according to the conditions under which it is formed. Old specimens of the syrup frequently show a deposit of ferric phosphates. The excessive acidity of syrup of phosphate of iron in the old Pharmacopeias was one of the reasons for deposition. In cold weather syrup containing 1 grain of quinine phosphate per drachm throws out some of that salt. Some invert sugar is also frequently found in the syrup, and, maybe, other of the solid constituents, as the preparation is practically a saturated solution, which is bound to yield deposits according to the conditions under which it is kept and the temperature. The addition of a trace of sulphurous acid prevents the syrup becoming coloured. You should read what is said in "Pharmaceutical Formulas" on the subject. M. D. G. (38/20).—The DEPOSIT IN EASTON'S SYRUP varies

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1865.

Medical Views of the Pharmacy Bills.

Medical Views of the Pharmacy Bills.

The Pharmaceutical Council expected that their Bill would have the warm support of the Medical body. This, however, is not the case. Even the "Lancet," which is so fond of contrasting the educated members of the Pharmaceutical Society with the "ignorant rabble" of outsiders, does not wish to see Sir Fitzroy Kelly's Bill adopted in its present form. "Were the eighteenth section of Sir John Shelley's Bill, setting forth restrictions and penalties on the sale of poisons, included in that of Sir Fitzroy Kelly," the "Lancet" believes "that a measure eminently entitled to public support would be the result." The "Medical Times" and "Medical Circular" object to any scheme for elevating chemists and druggists. The "Circular" says that chemists and druggists are at present formidable rivals to the legitimate practitioners, and in the event of a general Pharmacy Bill becoming law nearly every vestige of distinction between the two classes would be broken down. down.

SODA-WA

By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.

THE "COMPACT" MACHINES

are specially designed for

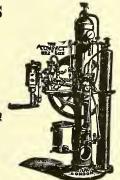
CHEMISTS, GROCERS, RESTAURATEURS,

and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE! ARE READY FOR USE IMMEDIATELY! REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



COMPLETE APPARATUS -CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY --FROM £20.

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26^T Eagle Wharf Road, No.

Proprietors of Galloway Bros., Bolton.

CHRISTY'S

TOILET LANGI.



a DOZEN
LLY Lanorfumed, will has pleased e sold is a se chemists reatest care the present nat satisfies ne this line.

BLUE" CARTONS
SYMPATHY. We respect of this Land line of a sure not separate, the most facontinuous who have he in their need, We respectfully suggest that you try a DOZEN of this Lanoline, because it is REALLY Lanoline of a superior quality, nicely perfumed, will not separate, and of a fine colour. It has pleased the most fastidious, and when once sold is a continuous recommendation. Those chemists who have hitherto exercised the greatest care in their purchasing and recognise the present difficulty in obtaining an article that satisfies their need, will, we venture, welcome this line.



PACKED IN HANDSOME "TWO-BLUE" CARTONS WITH LABELS ON TUBES IN SYMPATHY.

No. 9

THE KIND WORTH BUYING.

PER DOZEN.

OLD SWAN LANE,

LONDON.

E,C.

HUBBUCK'S PURE OXIDE OF ZING

Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles :--

Allen & Hanburys (Lim.)
Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Bleasdale (Lim.) [(Lim.)

Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British DrugHouses(Lim.)
Burgoyne, Burbidges &

Co. Butler & Crispe Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. ((Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Anothecaries' Co.

Glasgow Apothecaries' Co. Glasgow New Apothecaries' Co.
Goodal, Backhouse & Co.

Harker, Stagg & Morgan (Lim.) Harkness, Beaumont &

Hatrick, W. & R., & Co. Barry, E. J., New York. Carter, Carter & Kilham,

Boston.
Sinlay & Branswig, New
Orleans.

Langley & Michaels, San

Francisco. Lehn & Fink, New York.

Horner & Sons. Huskisson, H. O., & Co. Inman's Stores (of Edinboro'). Ismay, John, & Sons Lofthouse & Sal Saltmer

Lofthouse & Saltmer (Lim.)
Oldfield, Pattinson & Co. Pinkerton, Gibson & Co. Raimes, Clark & Co. Raimes & Co. Raimes & Co. Raimes & Barcland.
Silversides, R. B. G. Southall Bros. & Barclay. Summer. R, & Co. Taylor, James. Thompson, John (Lim.)
Willows, Francis, Butler & Thompson (Lim.)
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Um-

Wright, Layman & Um-ney (Lim.)

Wyleys (Lim.)

McKesson & Robbins, New York. outh Brothers & Co., Muth Baltimore. Shoemaker,

Battimore,
Roller & Shoemaker,
Philadelphia.
Schieffelin, W. H., & Co.,
New York.
Shoemaker, R., & Co.,
Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON,

(Established 1765)

24 LIME STREET, LONDON,

Manufacturers of-

White Lead, White Zinc, Paints, Oils, Colours, Varnishes,

AUSTRALIAN OFFICE-

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

We make a specialty of the manufacture of

GLYCEROPH

IN FORM OF PURE CRYSTALS. ALSO ANHYDROUS POWDER.

WE ALSO **MANUFACTURE**

GLYCEROPHOSPHATE OF CALCIUM, PURE (Free from added acid or other impurities)

GLYCEROPHOSPHATE OF POTASSIUM

GLYCEROPHOSPHATE OF SODIUM

Monsanto Chemical Works.

ST. LOUIS, Mo., U.S.A.

Manufacturers also of Phenacetin, Phenolphthalein, Vanillin, Coumarin and Saccharin. HENRI PELLIOT & CIE, 27 rue des Francs Bourgeois, Paris.

CITRIC ACID CREAM of TARTAR 98/99% TARTARIC ACID

ALL ALKALOIDS & CHEMICALS.

TELEGRAMS: "CHARPELLIO PARIS."

Ampoule Files

THE GREATEST PRODUCTION IN THE WORLD.

THE BEST. THE CHEAPEST.

Prices and Samples sent on application to-SIM LTD., Morges, Switzerland



CANTHARIDIN PODOPHYLLIN

Blandfield Works, EDINBURGH.

JALAP RESIN

22 City Road, LONDON.

SCAMMONY RESIN

37 Washington Street, GLASGOW.

PRECIPITATED CRETA PRÆCIP.





Lightest on the Market.

All grades from the LICHTEST to VERY DENSE.

MANUFACTURED BY

JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.

Agents:

THE NATIONAL ANILINE & CHEMICAL CO., 100 William St., NEW YORK. ALPHONSE RUCH, 63 Rue des Archives, PARIS.

Also Manufacturers of-

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.

Telegrams: "Sturgeon Birmingham."

EMETINE HYDROCHLORID. (Whiffen's) EMETINE HYDROBROMID. (Whiffen's)

For Hypodermic Injection.

The New Remedy in Amobic Disease—Vide British Medical Journal, Aug. 24, 1912, pp. 405-408.

Emetine for Hæmoptysis Vide Press Médicale, Paris, September 24.—"The result is sur-prising, bæmorrhage from the lung ceasing at once."—Prof. C. Flandin.

May be obtained, by ordering Whiffen's Brand, from all Chemists and Wholesale Drug Houses in the United Kingdom and Abroad.

WHIFFEN & SONS, LIMITED, BATTERSEA, LONDON, S.W.

Telephones-254 and 255 BATTERSEA.



CARBONATE, CALCINED AND FLUID.

PATTINSON'S

WASHINGTON CHEMICAL CO., LIM., COUNTY DURHAM. ENGLAND.

don dents_Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mineing Lane, London, E.C.

THE SECURITAS CO., LTD., Manufacturers, 1 Aldersgate Buildings, LONDON, E.G.

Telegrams: "GARAGE LONDON."

A B C Code, 5th Edition.

Telephone: CITY 3765.

A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII, B.P.

Prepared in strict accordance with the Formula of the British Pharmacopæia. London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

(Wholesale only.

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid— Cases Free, less 2½ % Discount for Cash.

	Advertised	sed Minimun			inlmum	
	Price.	Ret	ail Price.	Whole	esale Price	ð.
	Per Box.]	Per Box.	Pe	r Gross.	
Id. Packets	1/	12 in box	11d.		8/6	
2d. ,,	2/	11	1/10	1	16/9	
1d. linen Ba			11d.		8/6	
2d. ,, ,,	1/-	6 in box	11d.		16/9	
Boxes, about	131b. 4d		3½d.		2/10 pr. d	OF
					E/9	
	4/0				10/-	
7					19/2	
11 11 11 11 11 11 11 11 11 11 11 11 11	3½,, 8d 7 ,, 1/2 14 ,, 2/		7d. 1/- 1/10		5/8 ,, 10/- ,, 18/3 ,,	à

place in the United Kingdom, so that there is no Stock to hold.

Minimum Minimum Retail Price. ... 3/- ... 2/6 each ... 5/6 ... 4/7 ... 10/- ... 8/4 ... Advertised Price.
28-lb. Bags (or Boxes) 3/- each 1-cwt. Bags 10/- ,,

The following are also sent, carriage paid, cases free to any place in the United Kingdom, for net cash: 4—7lbs. Boxes, 3/6 the lot; 6—7lbs. Boxes and upwards to 10/- per dozen (list price). Orders for assorted sizes to the value of 7/6 and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

	Advertised	Minim		nimum	_
	Price.	Retail Pr	ics. Whole	sale Price.	_
Box of 3 large Tal	bs. $1/-$ each	10⅓d	7/	6 per doz	. boxes
6 small Ta			3/	9	
Bars about 1-lb.			3/	- per de	z. bars.
4 11	10d. ,,			• ,,	
,, ,, 1-16.	1001. ,,	•	0,	**	**

Accounts Mouthly Net due 10th of following month. Terms for Seidlitz Fowders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.

REGD. TRADE MARK OF KAY'S COMPOUND ESSENCE OF LINSEED. (Now upon the P.A.T.A.)

The above is a well-advertised remedy of over 40 years' proven efficacy for the relief of COUGHS and COLDS.

Supplied by all the Wholesale Houses in London and the Provinces.

ALSO MAKERS OF

"KAY'S TIC PILLS."

MOUNTAIN FLAX ('Linum Catharticum') Trade Mark. PILLS.

"CHLORO-LINSEED" COUCH LOZENCES.

"COACULINE."

Transparent Cement for broken articles. 6d. bottles.

"TENASITINE."

A Liquid Cement in Tubes, 1d., 2d., 3d. and 6d.

"KLINX,"

Hydraulic Cement (heatproof), 6d. Tins.

KAY BROTHERS. LIM STOCKPORT, England.

Telegrams: "Kay Stockport."

Telephone: 247 Nat.

N.B.-Prices quoted herewith are for preparations according to the New Pharmacopoia, 1914,

ISSUED PRICES WEEKLY.

original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as field N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Fol. Sennæ Tinnev., 1 cwt. at 6 d. lb.; 7 lbs. @ 7 d. lb.; Englisb Ground, 56 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.; Formaldehyde, 40%, 4 cwt. barrels @ 61/cctt.; 132 lb. carboys @ 63/6; 7 lbs. @ 10d. lb.

cwt.; 10d. lb.

Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.

Gallæ Cærul. Pulv., 7 lbs. @ 1/- lb. Gamboge, Englisb Ground 7 lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.

1 lb. @ 3/10 lb.

Ginger, Englisb Ground, 1 cwt. @ 46/- cwt.;
7 lbs. @ 7d. lb.

Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.

Glycerin. Opt. D.D., 1,260 P.B., 1 cwt. @ 106/cwt.; 55 lbs. @ 108/- cwt.; 12 lbs. @ 1/2 lb.

Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.

Acid. Carbolic. P.B., 6 lbs. @ 2/2 lb.

Belladon. B.P.C., 6 lbs. @ 3/- lb.;
1 lb. @ 3/3 lb.

Glycerin. Boracis, P.B., 6 lbs. @ 1/3 lb.

Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.

Plumbi Subacet. P.B., 6 lbs. @ 1/3 lb.

1/7 lb.

1/7 lb. Guaiacol Carb., 7 lbs. @ 11/- lb.; 1 lb. @ 11/6 lb. Guaiacol, pure, 1 lb. @ 10/- lb. Gum Acacia, sorts, 3 cwt. @ 45/- cwt.; 1 cwt. @ 49/- cwt.; 1 lbs. @ 74/d. lb.; English Ground Powder, No. 1, 1 cwt. @ 110/-; 7 lbs. @ 1/2\fl. db.; No. 2, 1 cwt. @ 85/-; 7 lbs. @ 10\fl. db.

Gum Benzoin, Sumatra, 84 lbs. @ 1/5 lb.; 7 lbs. @ 1/8 lb.

@ 1/8 lb.
Gum Catecbu Nig., English Ground, 1 cwt. @
75/- cwt.; 14 lbs. @ 8½d. lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.

B.

Gum Juniper, 14 lbs. @ 1/- lb.

Gum Thus Elect., 2½ cwt. @ 34/- cwt.; 28 lbs.
@ 42/3 cwt.
Gum Tragac. Elect., English Ground, 7 lbs.
@ 7/10 lb.; 1 lb. @ 8/3 lb.

*Heading (Frotbing Ess.), 5 lbs. @ 1/1 lb.; Heliotropine, 1 lb. @ 11/- lb. Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 42/6 cwt. Hexamethylenetetramine, 7 lbs. @ 4/- lb.;

Hexamethylenetetramine, 7 lbs. @ 4/- lb.; 1 lb. @ 4/4 lb.
Honey, Pale Set, Jamaica, 3½ cwt. @ 37/cwt.; 28 lbs. @ 50/- cwt.; Celifornian,
½ cwt. @ 52/6 cwt.; 7 lbs. @ 7½d. lb.
Hydrargyum, P.B., 10 lbs. @ 3/11 lb.; 1 lb. @
4/2 lb.; Ammon., 28 lbs. @ 5/- lb.; c.
Creta, 28 lbs. @ 1/7 lb.; lodid. Rub. 28 lbs.
@ 13/- lb.; Oxid. Rub., 28 lbs. @ 5/- lb.;
Perchlor., Lump, 28 lbs. @ 4/3 lb.;
Subchlor., 28 lbs. @ 4/9 lb.; Sulph. c.
Sulph., 28 lbs. @ 4/4 lb.; 7-lb. quantities
1d. lb. extra, 3-lb. quantities, 2d. lb. extra,
1-lb. quantities, 3d. lb. extra.
Hydrokinone, 1 lb. @ 10/o lb.

Chthyol Ammon. chemical equivalent Ammon. Icb.hosulphonas, B.P. Codex, 7 lbs. @ 7/-lb.; 1 lb. @ 7/6 lb.

Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Bucbu Conc. 1 to 7, 6 lbs. @ 2/2 lb.

Caryoph. Conc., 1 to 7, 6 lbs. @ 1/1 ld. lb.

Caryoph. Conc., 1 to 7, 6 lbs. @ 1/1 lb.

Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/4 lb.

Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.

Rosasiæ Conc., 1 to 7, 6 lbs. @ 9/4 lb.

Rose Acid. Conc., 1 to 7, 6 lbs. @ 9/4 lb.

Rose Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.

Senegæ Conc., 1 to 7, 6 lbs. @ 2/1 lb.

Yalerian Conc., 1 to 7, 6 lbs. @ 2/1 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted;

Insect Powder, Opt., Englisb Grd., closed flowers, 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/7 lb.; English Ground, ½ closed flowers, 4d. lb. less, Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb. lodoform Pulv. B.P., 7 lbs. @ 18/6 lb.; 1 lb. @ 19/- lodum resub. B.P., 7 lbs. @ 16/6 lb.; 1 lb. @ 11/- lb.

Isinglass, Brazil, fine cut, 7 lbs, @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 1/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Mamala, 7 lbs. @ 1/6 lb,; sifted, 3d. per lb. extra.

apis Pumicis, fine powder, 2 cwt. @ 8/- cwt.; 7 lbs. @ 1½d. lb.; lump, 2 cwt. @ 12/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 4 and 2-oz. Sticks, 1 cwt. @ 82/6 cwt.; 28 lbs. @ 9½d. lb.; 7 lbs. @ 10½d. lb.
*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.

1/5 lb.

*,, Bellad, Meth., 5 lbs. @ 3/3 lb.; 1 lb. @ 3/6 lb.

[1/1 lb., Gampb, P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 5/4. lb.

", Sapo Meth., 9 lbs. @ 7d. lb.

"Tereb, Acet., B.P., 5 lbs. @ 1/- lb.

Linseed c, Oil, Crusbed, 3 cwt. @ 19/- cwt.; 1 cwt. @ 2)/- cvt.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d.

7d. lb.,
Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.;
1 lb. @ 7d. lb.,
Bismuth, P.B., 6 lbs. @ 1/3 lb.,
Copaiba Buchu et Cubeb, 5 lbs. @ 2/8 lb.;
1 lb. @ 3/- lb.

1 lb. @ 3/- lb.

"Easton, p.s. 1-3, B.P., 1 lb. @ 3/- lb.
"Ferri Dialysatus, 6 lbs. @ 7d. lb.
"Ferri Iod. p.s., 1-7, 1 lb. @ 7/10 lb.
"Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
"Ferri Phospb. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.
"Hamamclidis, B.P., 6 lbs. @ 1/1 lb.
"Hypophosph. Co., p.s., B.P.C., 1 lb. @ 3/8 lb.

"lb.

", Hypopasspin, Co., p.s., b.F.C., 1 lb. @ 5/9 lb.

", Iodi Fort, B.P., 5 lbs. @ 6/- lb.
", Morphinæ Acet. or Hydrocblor., P.B., 6 lbs. @ 3/4 lb.
", Opii Sed., 5 lbs. @ 4/6 lb.
", Plumbi Subacet., P.B., 7 lbs. @ 3½d. lb.
", Pruni Virg. ps. 1-7, 5 lbs. @ 2/6 lb.
", Rbe.ados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
", Rhei, p.s., 1-7, 6 lbs. @ 2/2 lb.
", Santali Co., 1 lb. @ 4/- lb.
", Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.
", Sernæ pro Syr. 1-7, 6 lbs. @ 1/6 lb.
", Tolut. pro Syr. 1-7, 6 lbs. @ 1/8 lb.
", Trintirni, B.P., 1 lb. @ 6/1 lb.
Litbia Carb. P.B., 28 lbs. @ 4/11 lb.; 7 lbs. @ 5/1 lb.; 1 lb. @ 5/4 lb.
", Citras, B.P., 28 lbs. @ 4/11 lb.; 7 lbs. @ 5/1 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 5/4 lb.

Mag, Calc, Levis, 56 lbs. @ 8d, lb.; 5 lbs. @ 10d.

Mag. Calc. Levis, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/− lb. Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/− lb. Mag. Carb. Pond., 56 lbs. @ 7d. lb.; 7 lbs. @ 6d lb.; 6d lb.; 7 lbs. @

£d. 1b. Mag. Carb. Levis., 1 cwt.@ 33/6; 7 lbs.@ 41d. lb. Mag. Cit. Gran., 28 lbs. @ 11d. lb.; 6 lbs. @ 1/01

lb. Mag. Sulpb., fine druggists', B.P., 1 cwt. @ 9/6

Mag. Surpu., and Grade Cwt.

Manna, Good Flake, 14 lbs. @ 4/10 lb.; 7 lbs. @ 5/- lb.; 1 lb. @ 5/3 lb.

Menthol, dry white cryst., 60 lbs. @ 11/6 lb.; 5 lbs. @ 12/6 lb.

*Mist, Sennæ Comp. B,P., 20 lbs, @ 6½d, lb.; 6 lbs, @ 7½d, lb.

Morphinæ Acet, Hydrochlor, or Sulph., Pulv.
B,P., 25 oz, @ 13/10 oz,; 16 oz, @ 14/1 oz,; 8 oz, @ 14/2 oz,; 1 oz, @ 14/9 oz,; Pur.

Præcip, Bimeconate or Tart, 1 oz, @ 18/3 oz,

Morphina Diacetyl, 4 oz. @ 19/9 oz.; 1 oz. @ 20/- oz.; Hydrochlor., 6d. per oz. less, Myrrb, Gum, English Ground, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.

Naphthalene Candles or Balls, 1 cwt. @ 25/-cwt.; 56 lbs. @ 27/6 cwt.; 28 lbs. @ 29/6 cwt

Nux Areca, 1 cwt. @ 75/- cwt.; 7 lbs. @ 9d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½d. lb.

115, @ 734, Ib.

115, @ 734, Ib.

116, Amygdal, Ang., B.P., 9 lbs. @ 2/11\frac{1}{2} lb.

117, Ol, Anethi Ang. B.P., 1 lb. @ 15/6 lb.

118, 14, 16s. @ 4/6 lb.; 1 lb. @ 6/- lb.

118, 14, 16s. @ 9/6 lb.; 1 lb. @ 6/- lb.

119, 14, 16s. @ 5/4 lb.; 1 lb. @ 6/- lb.

119, 14, 16s. @ 9/6 lb.; 1 lb. @ 10/3 lb.; not guaranteed absolutely pure.

110 Caipupu, B.P., 21\frac{1}{2} oz. bots. @ 3/6 lb.

110, Caipupu, B.P., 21\frac{1}{2} oz. bots. @ 3/6 lb.

110, Caipupu, B.P., 21\frac{1}{2} oz. bots. @ 3/6 lb.

110, Caryoph, Ang., B.P., 9 lbs. @ 4/8 lb.; 4\frac{1}{2} lbs. @ 4/10 lb.

110, Cinnam., 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.

110, Cictronellæ, 9 lbs. @ 2/3 lb.

110, Coco. Nucis, finest White, 80 lbs. @ 69/-cwt.; 40 lbs. @ 70/- cwt.

115\frac{1}{2} lb.; 9 lbs. @ 1/7 lb.

115\frac{1}{2} lb.; 9

Ol. Lavand. ab Flor., 5 lbs. @ 12/- lb.; 1 lb. @ 12/6 lb.

Ol. Mentb. Pip. English, 5 lbs. @ 33/6 lb.; 1 lb. at 34/6 lb.; Hotchkiss original bots., 21 oz. each @ 14/- lb.; 6 bots. @ 13/6 lb.; 18 bots. @ 13/- lb.; 18 bots. @ 13/- lb.; 18 bots. @ 13/- lb.; 18 lb. @ 8/3 lb.; 4½ lbs. @ 8/11 lb.; 1 lb. @ 9/6 lb.; Japanese, 60 lbs. @ 3/11 lb.; 5 lbs. @ 4/4 lb.

Ol. Morrhuæ, 1914, finest non-freezing, 2-gall. tins @ 8/ per gall.

Ol. Myristicæ, 7 lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.

Ol. Nucis Pallid., 45 galls. @ 4/3 gall.; 2_gall. tins @ 5/6 gall.

Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 5/5 gall.; 2 gall. tins @ 6/6 gall.

Ol. Origani Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs.

6/6 gall.

Ol. Origani Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs. @ 2/-lb.

Ol. Peach Kernel (so-called), 1 cwt. @ 1/3 lb.; 56 lbs. @ 1/4 lb.; 9 lbs. @ 1/6 lb.

Ol. Pulegii B.P., 5 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.

Ol. Ricini Alb. Opt. Medicinal, 44 lbs. @ 58/6 cwt.; 9 lbs. @ 7/d. lb.; for export, 1 cwt. drums recommended, 9/6 each extra.

Ol. Rosmarini, Coml., 28 lbs. @ 1/6 lb.; 9 lbs. @ 1/7 lb.; B.P., 9 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.

Ol. Santal, Flav. Ang. B.P., 5 lbs. @ 24/6 lb.; 1 lb. @ 25/6 lb.

Ol. Sassafras, genuine, 28 lbs. @ 3/3 lb.; 1 lb. @

Ol. Sassafras, genuine, 28 lbs. @ 3/3 lb.; 1 lb. @

Ol. Theobromæ, B.P., 8-oz. tabs., 28 lbs. @ 1/9 lb.; 7 lbs. @ 1/10 lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 7/9 lb.;

1 lb. @ 8/-lb.
Opium Turc. B.P., 14 lbs. @ 29/-lb.; 3 lbs. @ 29/o lb.; 1 lb. @ 30/-lb.; powder, 6d. lb. Export, 12 Winchester Quarts assorted.

NOTE .- Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

CO., LONDON. ALLIANCE DRUG & CHEMICAL

LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

STANDARD PRODUCTS OF INTERNATIONAL REPUTATION.

Ether

Chloroform

Ethyl Chloride DUNCAN

MANUFACTURED ONLY BY

DUNCAN, FLOCKHART & CO., EDINBURGH & LONDON.

Wladyslaw Hoffmann & co., PETROGRAD & MOSCOW

are buyers of pharmaceutical and chemical products, and request manufacturers to submit to them advantageous offers for their goods. They are likewise exporters of various products of Russian origin.

ALL COMMUNICATIONS TO

WLADYSLAW HOFFMANN

& CO.,

Canal Catherine 27, Petrograd, Russia.

Telegrams: "WLAGOFF, PETROGRAD,"

French and English Correspondence.

Chlorate of Potash
Chlorate of Soda
Chlorate of Baryum
Perchlorate of Potash
Perchlorate of Ammonia

Seiling Agents: CHAS. MANGOLD & CO., LONDON
9 MINCING LANE.
SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,
2 RUE BLANCHE.

Seciété Anonyme Mines de Schistes Bitumineux à Meride et Besano. Establishment at Meride (SWITZERLAND).

SAUROLO

(Ammonium Sulfosaurolicum)

A product obtained exclusively from the distilled oil of the bituminous schists, rich in organic substance of animal origis (containing saurian and fossilised fish), and extracted from our mines at Méride and Besano.

This product is strongly recommended for its purity and high contents of organic sulphur.

Seneral Agents for Sales: BEGHÉ & CHIAPETTA, Succ. a G. Lattuada fu A., Via Grema 29, Milan. Telephone: 2475.

ROBT.O.WIENER & CO.

5 Water Lane, Great Tower St., London, E.C.

CERESINE WAX

BEESWAXES

BLEACHED CARNAUBA

TARTARIC ACID

CITRIC ACID

MEDICINAL WHITE OIL

PETROLEUM JELLIES

WHITES & YELLOWS
B.P. 1915.

We can show advantage.

MANUFACTURERS OF

VANILLIN

TERPINHYDRATE,

HELIOTROPINE, TERPINEOL, ISO-EUGENOL, THYMOL, OXIDISED TURPENTINE OIL, TERPINOL, Etc. Etc.

Distillers of
Oils, Clove, Pimento (Allspice)
Patchouli, Amyris, Santal E. I.

Verona Chemical Co.,

NORTH NEWARK, N.J., U.S.A.

Cable Address: Keystar Newark."

A BC, 5th Edition.

ENOTS ENOTS ENOTS ENOTS BA CHEMISTS WHO SELL INSECTICIDES ARE MOST FAVOURABLY PLACED FOR SELLING SPRAYERS. いものとぼ いものとば いものとば いものとば のものとば EV ER-READY PRICE **PNEUMATIC** 15/-SPRAYER EACH No. 2649 (SUBJECT) MHOZE WHOZE WHOZE WHOZE EVERY SPRAYER PLACED WITH A CUSTOMER IS A PERMANENT ADVERTISEMENT TO YOUR CREDIT. WRITE FOR SHOWCARD AND NEW LIST, WHICH INCLUDES SCENT AND BOTTLE SPRAYS. BIRMINGHAM.

Sphagnol BRITISH OWNED

S ENOTS ENOTS ENOTS ENOTS B

A Proved Healer of Skin Diseases and WOUNDS

Strongly recommended by Doctors

Sphagnol can cure the most acute forms of Eczema, Psoriasis, Acne, Herpes, Ulceration of the Ear, Blepharitis, Ringworm, Dandriff, Hæmorrhoids, and Pruritus

Sphagnol is an Antiseptic Preparation, easily applied, and can be borne by even the most sensitive parts. It has been tested for many years by medical men, and their reports leave no room to doubt its efficacy. Sphagnol Preparations consist of Soaps, including a very fine Shaving Soap, Suppositories, Ointment and Cream, which are put up in an attractive style. Sphagnol Medical, Toilet, and Shaving Soaps have been awarded the Certificate of the Institute of Hygiene for Purity, Quality and Merit

Chemists are cordially invited to write for Full Particulars and Free Samples

PEAT PRODUCTS (SPHAGNOL) LTD 19 Queenhithe, Upper Thames St., London, E.C

fred^{k,} fink & co.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES: - Gums Arabic and Tragacanth as imported or finely powdered.—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

RUBBER GOODS

(For ALL KINDS of SURGICAL)

Try JAMES TOMPKINS, LTD. Rubber Manufacturers, 386 CITY RD., LONDON.

ESTABLISHED 1877

JOHN E. RAWORTH.

CHARTERED PATENT AGENT,

PATENTS, TRADE MARKS AND DESIGNS.

THE OLD WANSION HOUSE, and QUEEN ANNE'S CHAMBERS. 73 Cheapside, E.C. WESTMINSTER, S.W.

First-Class

Reliable workmanship. Popular Prices. Moderate charges for Gold. D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M. Co. Teeth and Rubber guarante-d. Punctuality strictly observed. List free. Trial case solic ted. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 18 years' experience of first-class mechanical dentistry.

E. C. HALDER, 46 New Cross Road, LONDON, S.E. Phone, New Cross 1555.

BUNCHER & HASELER,

ALUMINIUM BOXES

Branston St., BIRMINGHAM, ENGLAND.

BEST ENGLISH MAKE.

Before placing your season's order for Hot Water Bottles please write for quotation to

The GALEN MANFG. CO., Ltd., Wilson St., New Cross, London, S.E.

WINES FOR A. MACNAIR & C? Dolphin Distillery:

Precipitated Chalk, Hyposulphite of Soda, Sulphite of Soda, Glauber Salts, Epsom Salts, Salts of Tartar, Alum, Sulphite of Lime, Sulphide of Sodium.

E. Bramwell & Son, Ltd., St. Helen S, Lang.

ECIPITATED

APPLYTO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C. Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

DISINFECTANTS

Cheapest Makers of Co-efficient Acids and Fluids.

HENRY ELLISON, LTD., CLECKHEATON, YORKS

FOR CHEMISTS

Write for Price List

WEADACHE

CACHET

BISHOPSGAT

"FINOT" CACHETS

(White or Coloured), With inscriptions in any desired tint; also Plain or Embossed.

"Beautifully made, and the Inscriptions give them a distinction all their own."—C. & D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache. Neuralgia, and other powders

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON. Also supplied to fit existing machines.

SANTONINE, PURE

I. L. GOLDBERG,

lamskaja 12, Petrograd.

For further particulars, prices, &c., address: No. 226/55, Office of this paper.

Baines' Dielectric & Baines' Dielectric Emulsion

The newly discovered Dielectric Treatment for LOCAL,
PYREKIA in its various forms, including Pneumonia, Appendicitis, Neuritis, Rheumatoid Arthritis, etc. The greatest medical
discovery of a century. All danger to life removed within a single
nour in Pneumonia, Appendicitis, etc. This remedy is unequalled
for rapidity of action in all forms of Local Pyrexis. Sold to the
Medical Profession and Drug Trade only by DEIONS 170., 220 Tower
Bridge Ecad, London. Phone: Hop 335. Telegrams: Deionisers,
Parm. London. Berm, London.

Send for Trade Price List of

DENTISTRY MECHANICAL

TEMPLAR MALINS. LTD.. 51 Queen Street, CARDIFF.

DENTISTRY FOR DENTISTS

By A. J. FENTIMAN, Dentist (Fentiman & Co.)

Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Cellulold, Strengthened Rubber, Reg. Cases (Angles'), Obturators, &c.

Telephone: 9977 London Wall. Telegrams: "Lullingly London." Postal—East Smithfield, Tower Bridge. Established 1835.

NO OTHER ADDRESS.

IN COLLAPSIBLE TUBES, AND OF

IN GLASS TUBES - PRICES ON APPLICATION

CRAWSHAW & CO., 56 Great Dover Street, S.E. ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992.

Teleg. Address: "Cachous London."



ALEXANDRE'S SHADEINE

FOR COLOURING GREY HAIR.

This popular article is largely advertised and stocked by all Wholesale Houses.

TRIAL BOTTLES 6d. size, supplied on pretty showcards.
4/- per doz.; 3/6 size, 28/- per doz.

WESTBOURNE GROVE, LONDON,

INVESTIGATE

The Py-Shan Points Co-operative Sales plan—we think it will interest you. It has a regular weekly sale, gives 5d. per lb., profit, and sales are confined to chemists. Just a card for particulars now to

CHRISTYS, OLD SWAN LANE, E.C.

DISPENSING BOTTLES, &c.



We are now offering above of first-rate quality, in original packages, at very low prices.

SAMPLES & PRICES WILL BE SENT ON APPLICATION.

YOULDON, LTD.

Treby Street, Maplin Street, MILE END, LONDON, E.

ESTABLISHED 1840.

Telegrams: "Youldon London."

Telephone: East 132.

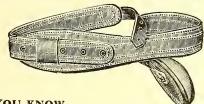


"Hernicura.

"COMFORTABLE."

Reg. No. 627975 (1913).

Patent No. 23241 (1913).



YOU KNOW

how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.

TRY

the "Hernieura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.

A 33-inch Truss will adjust from 30 to 36 inches. Head is also adjustable.

All orders executed by return, including Specials and Re-covers.

Write for Price List.

Specimens on Appro.

JOHN MORGAN DAVIS & SONS.

TRUSS & SURGICAL APPLIANCE MAKERS, 278 BISHOPSGATE, E.C.



THE BRYTSTELE OUTFIT

For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, anti-septic, and free from rust.

ATTRACTIVE OUTFITS AS ILLUSTRATED.

Retail 1s. 6d. each... Trade 13/= doz.
Refill Bottles (4 oz.)
8½d. each ... 5/6
Refill Bottles (10oz.)

11/- -1s. 4d. each ...

Good Showcards, etc. arriage paid on dozens only. THE BRYTSTELE Mig. Co., 62 Oxford St., London, W.



PROFITABLE ENGLISH GOODS.



TRANSPARENT

2/3 per doz. net

or

24/- per gross net.

(for orders of 3 doz. and over).

Retail price 3d. each

INGRAM'S



NGRAMS PATEN BAND VALVE

TEAT AND VALVE. BAND

GRIP TIGHTLY TO THE BOTTLE AND SLIP NOT

> STERILIZABLE BY BOILING. PERFECTLY HYGIENIC.

1/9 per doz. net

BLACK OR

TRANSPARENT

18/9 per gross net.

(for orders of 3 doz. and over).

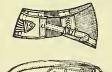
If your Wholesaler cannot supply, please write us:

Retail price 21d. each.

Patentees and Manufacturers:

& SON. Hackney Wick, LONDON, N.E.

Surgical and Athletic Appliance Manufacturers, H. HAYWOOD, Ltd. Castle Gate, NOTTINGHAM.



SPECIALITIES FOR SUMMER.

ELASTIC HOSIERY WITH OR WITHOUT SEAMS, SUITABLE FOR SUMMER WEAR. TRUSSES, SUSPENDERS, LADIES' & GENTS' BELTS MADE FROM POROUS MATERIALS, ELASTIC & LEATHER WRISTLETS, ARM-PIECES & ELBOW SUPPORTS, FOR CRICKET, TENNIS, GOLF & BOATING. GOODS FOR TOILET & SEASIDE TRADE, WASHING GLOVES, BATHING CAPS, WATER-WINGS, ETC.

INDIA-RUBBER APPLIANCES & DRUGGISTS' SUNDRIES.



REQUEST. LOWEST **SAMPLES** AND ON **OUOTATIONS**

THE SAFEST AND BEST PREPARATION OF OPIUM.

In 2-oz., 4-oz., 8-oz. and 16-oz. bottles.

GLYCEROLE OF NEPENTHE (eight times the single strength) for hypodermic injection. In 1 oz. Bottles. NEPENTHE SUPPOSITORIES in four strengths. Equivalent to $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, and 1 grain Morphia.

The word "NEPENTHE" is registered under the Trade Marks Act, and is the exclusive property of Ferris & Company, Ltd. We have from time to time been compelled to obtain injunctions in the Courts by which defendants were perpetually restrained from dispensing, selling, or supplying under the name of "NEPENTHE," or any colourable imitation thereof any medical preparation not prepared by us, and from in any manner infringing our Trade Mark "N EPENTHE" (No. 464), and were ordered to pay the costs of the actions.

The Trade are respectfully warned against any infringement of our Trade Mark "NEPENTKE" or the use of any name so nearly resembling it as to be calculated to deceive, and also against dispensing any but Ferris & Co.'s" preparation when "NEPENTHE" is ordered in a prescription.

FERRIS & CO., LTD., BRISTOL.

ass Tube Work

Nipple Shields, Breast Exhausters, Douche Linings, Ligature Tubes, Unions, Feeder Tubes, Beakers, Flasks, Test Tubes, Hydrometer Jars, Measures, Ampoules, Mohr's Burettes, with and without stop-cock. Hypodermic Syringes (two and three piece) with needles in metal cases. Amber Dropping Bottles, and nearly everything that was formerly made in Germany. Send your inquiries.

THE TRADE SUPPLIED. GLASS TUBES for PILLS, CACHOUS, etc. etc.

Jules Lang & Son, Charlton Works, Charlton Place, Islington,

Telephone: North 1345 (2 lines).

London. Telegrams: "Assorted, Nordo, London, N."

Telephone: 4418 Gerrard.

Tel. Address:." Pillischer London."

Established 1843.

88 NEW BOND STREET.

J. PILLISCHE

LONDON, W. MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

MANUFACTURER OF THE CELEBRATED "INALTERABLE" CLINICAL THERMOMETER.

RECENT EXHIBITIONS: 12 GOLD MEDALS-14 GRANDS PRIX. GAND, 1913, GRAND PRIX; GAND, 1913, HORS CONCOURS. (French Section) (British Section)

MAGNUS. & REYNARD, Inc.

257 Pearl Street. New York City, U.S.A.

Importers and Manufacturers.

ESSENTIAL OILS. VANILLA BEANS. DRUGS & CHEMICALS.

We offer for sale—

- Oil Peppermint, American Oil Sassafras, Natural
- ,, Spearmint
- Birch (Wintergreen)
- Wintergreen Leaf
- ,, Cedarwood
- ,, Limes, Distilled ,, H. P.
- - Artificial
 - ,, Wormseed, Baltimore ,, Wormwood, American
- Sandalwood, W.I.
- Balsam Tolu
 - ,, Copaiba
 - Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

Expurgo Anti-Diabetes

The only reliable and thoroughly satisfactory Remedy for Diabetes-Mellitus which has a record of complete cures.

REPORT FROM A PROMINENT PHYSICIAN.

I am satisfied your preparation has cured several of my patients. Expurgo Anti-Diabetes is particularly effective in combating and neutralising the diabetic poisons and in completely eliminating the sugar excretion characteristic of this disease.

The Medical Faculty is also recommended to try Expurgo Lapis—a particularly valuable preparation in the treatment of Call Stones, Kidney and Bladder Stones and Cravel.

Expurgo Anti-Diabetes, per bottle 8/-, less 25% Expurgo Lapis - per bottle 6/-, less 25%

Carriage paid on orders of 1 dozen.

THE EXPURCO MANUFACTURING CO., 815 North Clark Street, CHICAGO, ILL., U.S.A.

Distributing Agents: Rocke, Tompsitt & Co., 4 Redcross Street, London, E.C.

Since 1780 we have been continuously associated with the handling of Drugs and the manufacture of Pharmaceutical Preparations, and during the past three-quarters of a century or more have specialised in the production of ALKALOIDS, ANÆSTHETICS, ANTISEPTIC LISTERIAN and other SURGICAL DRESSINGS. Undernoted is a list of some of the articles which we can offer to advantage:—



Morphine
Codeine
Apomorphine
Aceto-Morphine
Ethyl-Morphine
Cotarnine
Narcotine
Papaverine
Beberine
Berberine
Emetine
Homatropine
Hydrastine
Strychnine
Veratrine

Chloroform & Ether

of highest possible purity, for Anæsthesia.

Surgical Dressings

in which uniformity of medication is guaranteed.

Surgical Catgut

in every form. Specially selected and tested.

Aloin
Caulophyllin
Cimicifugin
Chrysarobin
Euonymin
Hamamelin
Iridin
Leptandrin
Podophyllin
Salicin
Scammony
Resin

Spirituous Galenicals in bond

For Wholesale and Export only.

J. F. MACFARLAN & C?

Manufacturing Chemists :: :: Edinburgh & London.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, APRIL 10, 1915

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt inserties REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greative in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (2 lines). Telegraphic Address: "Chemieus Cannon London." (Three words counted as two.)

BEST RESULTS



That is what advertisers in The Chemist and Druggist Supplement secure. Not in-

definite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

IT PUBLICITY THE

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—MIDDLESEX (Within Easy Distance of West End).—Retail and Dispensing Business for immediate Sale for valuation and small sum for lease and goodwill; returns £1,500; net profit about £450; modern house with bathroom; handsomely fitted shop in first-class position.

2.—LONDON, S.W. (Main Road).—Old-established Business, situate in pleasant locality; returns £1,420 present rate; vendor, having purchased another business, will deal liberally with a buyer; every facility will be given for investigation.

3.-LONDON, N.-Middle-class Business, Retail and Dispensing; main thoroughfare; returns £900; large double-fronted shop; price £225.

4.—WALHAM GREEN (Near).—Ready-money Business; returns average £1,000 per annum; net profit £300; price £750, less than the value of stock and fixtures.

5.—SURREY (Suburban).—Good-class Business, Retail and Dispensing; established many years; returns last year £1,287; net profit 25 per cent.; terms, valuation of stock and fixtures, and premium for goodwill to be arranged.

6.—LONDON, S.W. (Main Marketing Thoroughfare).—Light Retail and Family trading; returns exceed £600; price £275.

7.—SEASIDE (Within 30 Miles of London).—Rising Health Resort; returns about #800 present rate; modern trading; gross profit about 40 per cent.; capable of large development; very convenient house; price to be arranged equitably.

8.—MANUFACTURING TOWN (North of England):—Cash Retail, with excellent Optical connection; returns show a steady increase, last year being £1,380: het profit £580; terms, valuation of stock and fixtures and sum for goodwill.

9.—SURREY (First-class Residential Locality).—At the value of stock and fixtures and £125 for goodwill a good-class Retail and Dispensing Business; returns, present rate, £2,000; commanding double-fronted shop, handsomely fitted and well stocked; exceptional opportunity.

10.—GLOUCESTERSHIRE.—Unopposed Business, established about 100 years, for Sale through ill-health; good opening for young energetic man; comfortable residence, with garden; rent

11.—RETAIL AND DISPENSING BUSINESS, situate in a good position of a fashionable Health Resort on the South Coast, now returning upwards of £2,000 per annum; terms, valuation of stock and fixtures and about £100 goodwill.

12,-WESTERN COUNTY.-Vendor retiring; good-class Retained Dispensing with Photographic Sundries; established about 78 years and held by vendor 40; returns average £1,450 at fair prices; well-fitted shop; vendor's own property; terms, valuation.

13.—YORKS.—Dispensing and Retail Business of good class; held by vendor many years; returns exceed £1,300 per annum; well-appointed shop and premises; to effect a speedy transfer vendor is willing to make some sacrifice.

14.—UNOPPOSED BUSINESS, Family, Retail and Dispensing; long established; well-fitted shop and ample stock; net income £300; good house; an opportunity seldom met with.

STOCKTAKING. UATIONS.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

Licensed Valuers, 73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS. NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,200 returns.—LANCS.—Good-cl town; net profit £300; price £600. -LANCS.-Good-class Light Retail, in small

£630 returns.—YORKS.—Branch Retail; would soon do £1,000 in capable hands; good shop and house; price £300.

£1,200 returns.—SOUTH WALES.—Branch Retail; n £300; fixtures about £200; stock removed to suit buyer.

£500 returns.—YORKS.—Nice-class Retail; could be much increased by qualified man; price £225.

£940 leturns.—LANCS.—Thickly populated district; good opening for Optical and Photo; valuation about £400.

£1,400 returns.—POPULAR LANCASHIRE RESORT.—Fine shop, good house and garden; net profit £300; very desirable concern; price £900.

£700 returns.—DERBYSHIRE.—Capable of considerable increase with personal attention; valuation about £400.

£1,300 returns.—BIRMINGHAM.—Good double-fronted shop; profitable middle-class Retail; increasing; valuation about £600.

We have cash Buyers for businesses from £500 to £5,000.

Valuations conducted upon the shortest notice et moderate fees.

VALUERS & TRANSFER AGENTS, 85 Jowry Street, Fenchurch Street, City. Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—MIDDLESEX (Rapidly Rising Locality).—Good class Retail and Dispensing Business, in very best position; returns last year £1,510, and this year so far shows good increase; modern premises, fitted in best style; price for goodwill and fixtures £450, stock at valuation.

stook at valuation.

2.—BUCKS.—Good Light Retail, Dispensing, and Prescribing Business, in pleasant market town; returns nearly £1,500; net profit £400; assistant kept; large house and garden; price £800.

3.—KENT COAST.—Good-class Retail, Dispensing, and Prescribing Business, in excellent position; returns £1,200; low rent; good house and Pharmacy, well stocked; price £550.

4.—CHESHIRE.—Light Family Retail and Dispensing Business, pleasantly situated; returns £1,000; net profit £300; good residence; handsomely fitted and well stocked; price £750.

5.—ESSEX (Popular Health Resort).—High-class Family Retail and Dispensing; returns average £16 weekly; good profits; plenty of scope; modern house and pharmacy; price £625, or offer.

6.—LIVERPOOL.—Cash Retail, Dispensing, and Prescribing; in main thoronghfare; returns last year £940, increasing; large well-fitted shop, good stock; price £500.

7.—LONDON, N.W.—Sound middle-class Cash Retail Business; in

7.—LONDON, N.W.—Sound middle-class Cash Retail Business; in good position; returns over £1,500; net profit nearly £500; books open to fullest investigation; own property; price £800.

8.—LONDON, S.W. (Five Miles Out).—Cash Retail and Prescribing Business, in busy main road; returns over £600; no panel; plenty of scope in qualified hands; price only £275; worth attention.

STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

PARSON

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

50 years' experience in every branch of business.

Recommended by—
BRITISH DRUG HOUSES, LTD.

MEGGESON & CO. LTD.

BARCLAY & SON, LTD.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 27.

DEATH Vacancy.—Handsome double-fronted modern Shop is residential district, N.W.; returning over £12 weekly under unsatisfactory management in very good class Dispensing and Family trade; price £275; good honse, side entrance; 9 rooms; rent £100, of which half can be readily let off.

VENDOR retiring on competency obtained solely from bnsiness now offered for sale on account of ill-health; returns under manager over £1,500; formerly over £2,000; scope for indefinite extension; large town South Wales; Welsh not necessary; value of stook and fixtures only, and part purchase money can remain; best position; personally inspected and recommended.

PROSPEROUS Business in Carmarthenshire returning over £2,300, including Gilbey's sole agency £850; N.H.I. £150; vendor, entering the medical profession, will accept first reasonable offer near the value of the stock and fixtures, about £1,000.

Valuations for any purpose promptly conducted at moderate prices.

THOS.TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER. ESTABLISHED OVER HALF A CENTURY. Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

33 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

NENTRAL SCOTLAND .- Business for Disposal; best working-class district; Family and Dispensing; average net profit for past five years £220; well fitted; heavy stock; stock could be reduced; price about £520; part price could remain. Fullest particulars to bona-fide inquirers, principals only, "Scotland" (19/3), Office of this Bayerre of this Paper.

HULL.—Owing to sudden death of proprietor; profitable Drug Store and Prescribing Business, on main road of thickly pepulated district; present returns £16 to £18 per week; could be considerably improved by qualified man; price £300 for immediate disposal. Apply, Mr. T. Redford, 46 Hessle Road, Hull.

KENT.—Light Retail Business, doing about £450 under management; 3,000 N.H.I. scrips per annum; price, stock at valuation; every investigation courted. 21/35, Office of this Paper.

KENT (20 miles from London Bridge).—Well-established, progressive Business, showing for the last four years an average (approx.) 50 per cent. gross profit; price about £300; good prices and mostly cash; present proprietor, owing to domestic troubles, desires to leave the neighbourhood. "Urgent" (25/20), Office of this Paper.

LANCS (Popular Resort).—Sound Business; splendid position; handsomely fitted; turnover £670; valuation £410; good opening for Optics; price £350; offers considered. 61/45, Office of this Paper.

LONDON, S.E.—Sound middle-class Cash Retail Business, in good position; returns last year £960; net profit a good £250; plenty of scope; good house and garden; lease 7, 14, 21; price £750 cash. W., 12 Kitto Road, New Cross, S.E.

LONDON, S.W. (Flourishing Suburb).—Advertiser, wishing to devote full time to his West-End Business, offers suburban one for immediate Disposal; spacious Pharmacy, mahogany fixtures, electric light; saleable and up-to-date stock; off panel; price £800; for keen speculators on war-sacrifice bargains "nothing doing." Apply, "Parti" (42/21), Office of this Paper.

MIDDLESEX.—Good-class Retail; pleasant residential district, still growing; returns £850; rent £60; excellent house; established 10 years; proprietorship unchanged; price £650; also lock-up Branch in new high-class growing district; large and handsomely fitted; splendid opening for beginner; good prospects; price £450 cash, cost of fittings and stock only. 24/40, Office of this Paper.

NORTH WALES.—For Sale as a going concern, old-established Business of Chemist and Druggist in Wrexham; shop splendidly situated in main thoroughfare; well stocked; modern fittings; electric light; turnover £1,500 per annum; no reasonable offer refused. For further particulars apply A. Moffatt, Accountant, 20 Regent Street, Wrexham.

NORTH WALES COAST.—For Sale, consequent upon death of proprietor, old-established Business in populous neighbourhood; price, valuation; convenient living premises; immediate possession. Apply, 16/13, Office of this Paper.

OUTH WALES.—Chemist's and Wine and Spirit Dealer's Business for Sale; established nearly 40 years; takings nearly £2,500; excellent investment; profits good; scope for increase; terms to be settled by mutual agreement. Apply, 271/36, Office of this Paper.

WEST LONDON.—Cash Retail in busy neighbourhood; returns £10-£12 weekly, with plenty of N.H.I. Dispensing in addition; established 11 years; same proprietor; genuine concern offering much scope for increase under energetic man; every investigation; books properly kept; owner's rapid decline in health sole reason for disposal; price £250, or nearest. 24/39, Office of this Paper.

WEST OF ENGLAND.—Exceptional opportunity for smart pushing man with limited capital; good Family Retail and Agricultural Business in growing market town; charming locality; returns £1,100, practically all cash; smart Pharmacy, heavily stocked; low rent; price £600; will allow £400 to remain to a good man well up in Agricultural lines. Apply "Cupri" (25/7), Office of this Paper,

BRANCH Business for Sale; plenty of scope for energetic man; open fifteen months; present takings £400; well stocked; good house; good nucleus of National Insurance Dispensing formed; price £150, or valuation. Apply, 23/25, Office of this Paper.

CHEMIST'S and Druggist's Business in Manchester for Disposal; old established and in busy thoroughfare; good middle-class trade; a splendid opening for energetic young man; low price. Apply, "Printers" (62/47), Office of this Paper.

FIRST-CLASS Light Retail and Dispensing Business for Disposal, within 30 miles of London; returns £3,000; gross profit 40 per cent.; scope for doing at least another £1,000 a year; suit two energetic young men with not less than £2,000. Address (enclosing reference), "Nemo" (25/07), Office of this Paper.

SPLENDID opportunity for young man; Mixed Country Business with Mineral Water Factory to be Sold as a going concern; good opening for Optics and Dentistry; returns £1,200; net profits £250; good house and garden; cheap rent. "Sunset" (19/32), Office of this Paper.

£12 trade; £200 stock; plenty of scope for increase; select S.W. suburb; £180 for quick sale; in the hands of a smart qualified mot on Panel. Replies, 21/17, Office of this Paper.

BUSINESSES WANTED.

REQUIRED by Chemist and Optician, Business (profits not less than £200) or opening for same; market town of over 10,000 preferred; valuation terms for business (cash down), or £10 for opening if acted upon. Apply, "X. Y. Z." (20/9), Office of this Paper.

WANTED to purchase, sound Chemist's Business with scope for increase; any locality, but busy neighbourhood preferable; cash available £400. Replies in confidence, "Statim" (25/11), Office of this Paper.

FOR SALE.

NATIONAL Cash Register, nearly new; Ticket Printer with assistant's initials; perfect. Write, A., 89 Stewart Road, Stratford, E.

PROPRIETARY Toilet and Household Speciality.—For Sale, compact Manufacturing Plant, adaptable to any premises and capable of economically turning out any quantities; proprietary formula, trade-mark, and stock included; favourable opportunity for a buyer open to elose transaction quickly. Apply, in first instance, 21/19, Office of this Paper.

SHOPFITTINGS, Carboys, Shop Rounds, etc., for Sale, cheap; best offer. Apply, 78 Duke Street, Grosvenor Square, W.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can is ac case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A N Opportunity.—An old-established firm, with large Home and Colonial connection with general manufacturers, is open to exploit any good thing for which a general market could be created, Address, 61/39, Office of this Paper.

RUSSIAN Buying Agent wishes to be in touch with Chemical. Drug, Surgical, and Rubber manufacturers, Perfumers and Soapmakers, and Hairdressers' Sundries exporters. 25 4, Office of this Paper.

To Capture German Trade in China, Japan, and Straits Sottlements.—Open to immediate engagement as Representative for one or more firms connected with the Drug, Druggists' Sundries, or Toilet Articles trade; many years' experience, and thorough knowledge of the territory. Address "Rex," 44 Bonsor Road, Twickenham.

APPRENTICESHIPS.

A PPRENTICESHIP required for youth aged 16½ years; passed Preliminary; best references; indoors preferred. Marley, Cartref, Minchead.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

A LDERSHOT.—Assistant required for a good Retail Mixed business; must be first-rate Counterman. Reply, stating salary required, references, etc., to Allen & Lloyd, Aldershot.

BARMOUTH.—Junior Assistant wanted by first week in May; indoors; Welsh preferred. Photograph, state ago, salary, etc. (time to read), Williams, Barmouth.

BATH.—Qualified Assistant, with good experience, required in good-class Dispensing business; no heavy trade or N.H.J. Dispensing. Please give particulars of age and experience, with salary required, in first letter to J. Hawes, M.P.S., 37 St. James's Square, Bath.

BEACONSFIELD.—Assistant wanted, lady or gentleman, for good-class Dispensing and Photographic business (outdoors). State height, salary required, full particulars, and send photograph to Mr. R. W. Brooke, Chemist, Beaconsfield.

BELFAST.—William Dobbin & Co., Ltd., Chemists, Opticians, and Photographic Dealers, Belfast, require an Assistant having a good general knowledge of the Retail Drug business. Apply by letter, giving references and stating salary.

BIRKENHEAD.—F. C. Cooling, Oxton, will require (shortly) a Junior Assistant (outdoors) accustomed to Dispensing business.

DIRMINGHAM Suburb.—Wanted, a reliable Junior or Improver; N.H.I. Dispensing and Counter; wages 30s. weekly. Apply, "Statim" (20/40), Office of this Paper.

PIRMINGHAM.—Unqualified Assistant required, age about 21-23, for a flourishing suburban business; permanency. State salary required and when at liberty, 62/370, Office of this Paper:

BIRMINGHAM.—Assistant; unqualified; good Window-dresser and Counterman; permanency for right man. Send full particulars, salary required, references, and photo (if possible), which will be returned, H. T. Hall, M.P.S., Chemist, Dogpool, Birmingham.

BIRMINGHAM.—Junior, about 21; outdoors; good Counterman and neat and reliable Dispenser necessary; state salary and references. Rushton, Pharmacist, Hall Green, Birmingham.

DIRMINGHAM.—Junior: unqualified; experienced; gentlemauly; good Salesman and Dispenser; one accustomed to good-class trade. Apply, giving full particulars of age, height, experience, salary required (outdoors), and if convenient enclose photo, to Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

BRIGHTON.—Lady Dispenser, quick, accurate, reliable, wanted at once; no Sunday duty; half-holiday weekly; Hall qualification, if possible; good wages. Edgar Jones, 18 Trafalgar Street, Brighton.

PRISTOL.—Wanted, good Dispenser; qualified. Apply, stating salary, particulars of experience, etc., Ferris & Co., Ltd., Bristol.

BRISTOL.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home. References, carte de visite, and salary asked to Edward Maish, Cotham Brow, Bristol.

PROADSTAIRS.—Junior Assistant (outdoors) required in a firstclass Dispensing and Light Retail business at the seaside. State age, height, salary, if possible enclose photo, Julian Horrell & Son, Dispensing Chemists, The Pharmacy, Broadstairs.

PROMLEY (Kent).—Junior or Improver (indoors), with know-ledge of Homeopathy preferred, though not essential. Apply, stating ago, height, references, and salary required, with photo, to R. Skinner, 26 Widmore Road, Bromley, Kent.

BUSHEY, HERTS.—Outdoor Junior or Improver (not eligible for the Army); must be quick, have a knowledge of Photographic, and a worker; good-class modern trade. J. G. Fletcher, M.P.S., Aldenham Road, New Bushey, Watford.



This Blackboard demonstrates that Advertisers using these columns, get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT, OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

CAMBERWELL, S.E.—Wanted, qualified Manager (outdoors) for N.H.I. and Light Retail business. Write, stating age, reference, and salary required, 18/14, Office of this Paper.

COVENTRY.—Assistant wanted after Easter; Dispensing and Counter alternate weeks; also Junior for Branch. State age, experience, salary required (outdoors), references, Bird, Chemist, Spon Street.

EAST COAST.—Assistant or active Partner; half-share in an old-established business; must be reliable, with good business abilities. Please state age, terms, what capital at command, and references, enclosing photo if convenient, "Pharmacist," c/o British Drug Houses, Gresham Street, City Road, London.

POLKESTONE.—Senior Assistant wanted for Dispensing business; quarters provided. Apply, stating age, salary required, and previous experience, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

GORLESTON-ON-SEA.—Junior (qualified) wanted at once (indoors); comfortable berth; no Sunday duty; half-holiday weekly. Apply, stating references, age, experience, and salary required, photo if possible, to P. R. Hill, Photographic and Pharmaceutical Chemist, 90 High Street, Gorleston-on-Sea.

HUDDERSFIELD (Yorks).—Unqualified Assistant required for a good Mixed business; must be first-rate Counterman and Window-dresser; good salary offered to the right man. 62/507, Office of this Paper.

KENSINGTON, W.—Unqualified Assistant about 50 years of age; must be gentlemenly, a quick and accurate Dispenser, and have had recent high-class experience; salary £2 15s. per week (outdoors). Give full particulars of last three situations, height, and when disengaged to "Phenol" (24/14), Office of this Paper.

LEICESTER.—Junior unqualified Assistant required; must be a good Counterman and Dispenser. Please state particulars of experience, references, age, height, salary required, and enclose photo (will be returned), Berridge, Ltd., Chemists, Leicester.

IVERPOOL.—Qualified Assistant-Manager; outdoors; quick business; no Sunday duty or N.H.I. Dispensing. Particulars to "W. S.," c/o Mr. J. H. Egan, Printer, 3 Fleet Street, Liverpool.

L ONDON.—Manager required for profitable business in a working-class neighbourhood; liberal interest in the profits offered to an energetic and reliable man. 62/037, Office of this Paper.

L ONDON, N.-Wanted, an Assistant for three or more evenings; good Dispenser. 26 Stamford Hill.

I ONDON, N.—Wanted, capable Assistant for quick Cash business; hours 9 to 9.30; Saturdays 10.30; Wednesdays elose at 1 o'clock; duty every other Sunday evening only from 6 to 9.50; one hour for dinner; one hour for tea; outdoors; fiberal salary. Age, references, and salary to Pirie, Chemist, 4 Grand Parade, Harringay.

ONDON, N.E.—Junior Assistant (outdoors) for a good-class sub-Jurban Branch (Photograph Sanger's Catalogue—Part 5); salary £2. Apply, stating age, height, and experience, also enclose photo (if possible), Matthews & Son, Pharmacists, 722 High Road, Levtonstone.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hard-ship to the cender. All personal documents should be returned as promptly as possible after perusal.

TO SAVE TROUBLE,

MANY correspondents a swering advertisements in this Supplement enclose remittates to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

- REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.
- BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

LONDON, N.E.—Qualified Assistant, clderly, or one seeking permanent light employment; easy hours arranged. State references, salary, etc., "Urgent" (25/24), Office-of-this Paper...

LONDON, N.W.—An excellent opening occurs for a reliable man, qualified preferred, wishing a permanency; to one of industrious habits and possessing undeniable references mutual arrangement would be made as to hours, etc.; no Sunday duty. Write full particulars to 18/25, Office of this Paper.

LONDON, S.W.—Required, in large West-End establishment, an of work. Write, giving particulars of past experience, to 1653, Sells' Advertising Offices, Fleet Street, E.C.

I ONDON, S.W.—Messrs, Amoore & Co. require a qualified Senior Assistant. Apply, with full particulars, at 173 Sloane Street, S.W.

LONDON, W.—Required, in a Dispensing business, competent Junior with good previous experience; outdoors. State usual particulars and when disengaged, Sharpe & Son, 34 High Street, Notting Hill Gate, W.

ONDON, W.—Wanted (at once), a smart and capable Assistant, chiefly for Dispensing; a comfortable berth to the right man. Please apply with the usual particulars and salary expected to C. E. Wickham, 298 Harrow Road, W.

ONDON, W.C.—Wanted, Assistant (outdoors), accustomed to good-class Retail and Dispensing; qualified preferred. Burden & Co., Pharmacists, 41 Store Street, Bedford Square, W.C.

ONDON (West End).—Qualified Assistant; must be well up in Dispensing. Apply, with full particulars, to 25/19, Office of this Paper.

MANCHESTER.—Junior for good-class Retail and Dispensing business. State full particulars as to age, experience, and salary required to J. S. Breese, Pharmaceutical Chemist, Rusholme.

MARGATE.—Qualified Branch Manager for permanency; competent and trustworthy; about 30; for good-class Retail and Dispensing business; full particulars of last two engagements, use, height, and photo if possible, state salary (unfurnished coms on premises); also unqualified Junior (outdoors). W. M. dosser, Baily & Co., 2 Ethelbert Terrace, Margate.

NEAR Liverpool.—Wanted, an Assistant, possessing first-class Dispensing and Counter experience; salary 50s. to a really mart man. Rutter, Chemist, Seaforth.

YEAR Manchester.—Wanted, unqualified Assistant; outdoors; must be good Dispenser and Counterman. Full particulars and wages required to McKinlay, Chemist, Glossop.

ORTH OF ENGLAND.—Wanted, unqualified Senior for a very extensive Retail business in the North of England; ust be young, energetic, and have a thorough knowledge of todern Store trading, also Photography and Window-dressing; his is an excellent permanent position for a man of real capacity ble to organise and take control if necessary; interview arranged. lease give full particulars in first letter and enclose photo to 3/26, Office of this Paper.

LDHAM.—Unqualified Assistant for quick Cash business; must be reliable and a good Salesman; salary 30s. per week and ommission. 61/73, Office of this Paper.

LDHAM.—Wanted, qualified Assistant for quick Cash business; £3 per week and commission; must be smart, a willing orker, and good Salesman. Address, with full particulars, age, ferences, and photo, to 61/073, Office of this Paper.

DENZANCE.—A capable Assistant for good class Retail with Photography; outdoors. Usual particulars to H. H. Cannon, harmacist, Penzance.

UTNEY.—T. Jones & Co., 5 Putney Hill, require an Assistant (outdoors) for good-class Dispensing business; must be a reful Dispenser and have good references. Apply, personally or letter, to Mr. Amooge.

T. LEONARDS ON SEA.—Assistant wanted (indoors) for Light Retail and Dispensing. State age, height, references, and ary required, enclosing photo, to T. W. Jones, 55 Bohemia Road, Leonards-on-Sea.

OUTH COAST.—Assistant required; experienced; comfortable permanency, with good salary. Timothy White & Co., Ltd., mists, Portsmouth.

OUTH COAST.—Ordinary Retail and Prescribing, some N.H.I. work; Extractor with knowledge of Dentistry prered, but not essential if willing to learn. State full particulars to age, experience, references, when at liberty, and salary sired; also vacancy for Improver in market town; knowledge tography. 22/12, Office of this Paper.

SOUTH DEVON.—Qualified or unqualified Assistant, single, for seaside town; Photographic and General business; easy hours; outdoors. References and salary required to 61/55, Office of this Paper.

OUTH KENSINGTON.—Qualified Assistant (outdoors) for highclass Dispensing and Retail Counter; Junior kept; hours 9 to 8.30, Saturday 10 P.M., Sunday duty one in three; salary 5 guineas weekly. Send particulars of experience, age, height, and when at liberty to 24/014, Office of this Paper.

OUTHPORT.—Wanted, a reliable Assistant, with a good knowledge of Dispensing and Retail; outdoors. Send full particulars, age, reference, salary, etc., when disengaged, Jas. Righton, 515 Lord Street, Southport.

TAFFORDSHIRE.—Junior Assistant immediately for Light Retail business; very little Insurance Dispensing; easy hours; half-day holiday weekly; no Suuday or uight duty. Apply, 23/13, Office of this Paper.

STAMFORD.—Wauted (at once), Junior, indoor or out: indoor preferred. Apply with reference, stating experience, salary required, etc., and enclosing photo, to F. Dickinson, St. Mary Street, Stamford.

SWANSEA.—Required immediately, Improver or young Junior (outdoors), State age, height, references, and salary required to "Ferrum" (23/13), Office of this Paper.

WARWICK.—Required, shortly, geutlemauly and obliging Assistant for good-class Dispensing and Light Retail, with Photographic (no developing or printing). Please state age, height, and salary required, and give references, to H. R. Croasdale, The Pharmacy, Warwick.

WESTCLIFFE-ON-SEA.—"Body's Pharmacies," Chemists and Ophthalmic Opticiaus, have a vacancy for good Junior, about 20; must be accurate Dispenser and accustemed to good-class Modern Retail; facilities for experience and progression. State full particulars and salary required (indoors) first letter, enclose photo or suggest personal interview. Body, "Westwood," Westleiffe-ou-Sea.

WESTON-SUPER-MARE.—Unqualified Assistant (indoors) for Light Retail and Dispensing business. Please give full particulars in first letter to Ernest Widgery, The Central Pharmacy.

WESTON-SUPER-MARE.—Lewis Wing, Ltd., require a qualified Assistant at once; outdoors; reliable Dispenser and courteous at Counter. Send photo and full particulars, 8 The Boulevard, Weston-super-Mare.

WORTHING.—Assistant wanted, good Dispenser. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, Worthing.

YORKSHIRE (West Riding).—Unqualified Junior required for progressive business; permanency with excellent prospects; state when at liberty. 62/37, Office of this Paper.

A COMPETENT Assistant, about 25, outdoors, as Junior. Apply to W. F. Pasmore, 320 Regent Street, London, W.

A N Assistant for good country Dispensing business; unmarried; casy hours; no Sunday duty. State salary, references, etc., to Fresson, Pharmacist, Stevenage, Herts.

A SSISTANT, accustomed to high-class Dispensing and Window-dressing; near Manchester. Apply, stating full particulars, salary, etc., to 18/21, Office of this Paper.

A SSISTANT, unqualified, wanted. Apply, with full particulars, state salary, and enclose photograph, to C. Brameld, Chemist, 219 Holderness Road, Hull.

A SSISTANT, with good experience, required in good-class Retail Dispensing and Photographic business on South Coast; two kept; hours light, and good salary to suitable man; permanency. Apply, stating full particulars, age, height, references, salary required (outdoors); and when disengaged, to G. H. Gare, Pharmaceutical Chemist, Lymington, Hauts.

A SSISTANT wanted; good Dispenser; knowledge of Photography. Crawford, Chemist, Horley, Surrey.

A SSISTANT, qualified, required for Light Retail and Dispensing; indoors. State salary and usual particulars, enclosed photo, J. Smithson, 1 Preston Road, Brighton.

BRADY & MARTIN, LTD., 29 Mosley Street, Newcastle-on Tyne, require, early in April, qualified Junior Assistant for the Dispensing and Retail Counter; accustomed to high-class business; indoors. Applicants please give full particulars of age, salary, when disengaged, and enclose photo.

PROWN'S DRUG CO., High Ousegate, York, require, as early as possible, young Junior Assistant, about 21 years, for quick Cash trade. Applicants please give full purticulars of age, salary, height, and when disengaged in first letter, and enclose photo (to be returned), to C. M. Brown. Chemist, as above.

DISPENSER and Bookkeeper required by Doctor in a suburb of London; full time. 'Address, 23/33. Office of this Paper.

DISPENSER (Lady) wanted for Medical Practice in East-End work (light). Apply, stating age, to 21/18, Office of this Paper.

MIDERLY qualified man required for supervision only; is required to be in attendance for two hours morning and evening. 21/1, Office of this Paper.

FIRM of Doctors require two Dispensers, either sex, for separate Surgeries; one with knowledge of Sight Testing; must be abstainers, experienced, and well recommended; hours and duties light; increasing salary. State fullest particulars, age, when free, etc., with photo if possible, to 18/32, Office of this Paper.

TMMEDIATELY, a competent Man who is accustomed to good Dispensing business. W. Pickard, 3 West Kensington Terrace, W.

JUNIOR or Improver wanted for Cash and Dispensing trade (outdoors). Apply, stating age, salary required, when disengaged, recent reference, to Wharram, Ltd., 115 Vicar Lane, Leeds

JUNIOR Assistant wanted for good-class business; abstainer preferred; hours 8 to 7.20; Wednesdays 1; Saturdays 9; no Sunday or holiday duty. State age, height, experience, salary required (outdoors), when d.sengaged, and enclose photo if possible, C. Polgreen, Chemist, Andover, Hants.

JUNIOR wanted, about beginning of May, for good-class business; knowledge of Photographic business preferred; indoors or out. Give full particulars and references and state salary required, A. G. Reid, Petersfield, Hants.

JUNIOR wanted, 20 to 23. State salary required and usual particulars, W. Roberts, Chemist, 73 Brook Street, Chester.

JUNIOR Assistant for middle-class business, with N.H.I. Dispensing; two Assistants kept. Apply (letter only), giving-full particulars as to experience, names of references, when disengaged, and salary required (in- or out-doors), "Pharmacist," 115a Stoke Newington Road, London, N.

JUNIOR Assistant wanted; good-class business; outdoors; no Sunday duty. Please apply, S. Phillips, Pharmaceutical Chemist, Wolverhampton.

JUNIOR Assistant for good-class Retail and Photographic business on South Coast. Apply, with full particulars of experience, age, and salary required (outdoors), to Longman, Little-hampton.

JUNIOR wanted; London district. Workman, 9 Church Lane, Leytonstone.

LADY Assistant wanted in good-class business for Dispensing perience, salary and references, and when disengaged to G. A. Johnson, Pharmacist, Stamford.

LADY Assistant wanted for Chemist's business. Give full particulars and salary required (outdoors) to Walter Marchant, High Town, Hereford.

LADY Dispenser (experienced) required by doctor practising in an attractive town in the Midlands. Apply, with usual particulars, to "Viator" (21/20), Office of this Paper.

MANAGER, married, age about 30, qualified, for old-established high-class Dispensing business in Kent, to reside on premises; to a successful man an interest in the business would be given with the possibility of future succession. Give usual particulars in first letter to "X.," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London.

Manager; married; small Retail business; sole charge; interest in business; references, age, ctc. Apply, Paterson, 5 Woodville Terrace, Gravescond.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmaoist as Manager; easy hours; good and progressive salary, with excellent prospects.

PART TIME Assistant wauted, 5 evenings weekly, convenient for student, from 6 p.m. to 9 p.m. Apply, Mr. Collishaw, 16 High Street, Wandsworth, S.W.

QUALIFIED Assistant wanted at once; wage 65s. to first-class man. State particulars to Newtons, The Pharmacy, Royton, near Oldham.

QUALIFIED Chemist, chiefly for N.H.I. Dispensing; easy berth. Please state age, salary, etc., to J. Waterhouse & Co., Ltd., Ashton-under-Lync.

QUALIFIED Assistant wanted, with good experience (outdoors). Apply "F. W. G.," Allen & Hanburys, Ltd., 7 Vere Street,

QUALIFIED Assistant; in- or out-doors; four kept. Send particulars of age, height, experience, and salary required, with photograph, or apply personally, to Hooper, Struve & Co., Ltd., 26 Davies Street, London, W.

QUALIFIED Assistant required on July 1. Atkins & Son, Pharmacists, Salisbury.

QUALIFIED Manager required for Branch business. Please give full particulars as to salary required, etc.; E. Murray Carruthers, Chemist, 31 St. John's Street, Bedford.

QUALIFIED Assistant; whole or part time; age about 23. Dyson & Co., 35 Gloucester Road, South Kensington.

QUALIFIED Manager wanted for busy shop; married preferred; permanency intended if applicant proves suitable. Apply, giving salary required, etc., and usual particulars, to 23/025, Office of this Paper.

QUALIFIED Manager for Branch in Lancashire industrial district, within easy reach of Liverpool and Manchester; Prescriber and Extractor preferred, but not essential; permanency to right man; part interest or succession entertained. Apply, giving references and salary required, to "Tyhalen" (25/3), Office of this Paper.

QUALIFIED Assistant wanted; 15 miles from Manchester; temporary; permanency if suitable; exceedingly comfortable position; ne objection to elderly; preference given to one of temporate habits. Apply, giving full particulars, age, salary, etc., 22/24, Office of this Paper.

QUALIFIED Dispenser required at once. Apply, personally at once, to Staff Superintendent, Harrod's, Ltd., 44 Hans Crescent, S.W.

QUALIFIED Assistant wanted, with view to management if found suitable; in- or out-doors; knowledge of Photography and Optics; must be quick and accurate Dispenser and used to good-class Family Retail trade. Apply, giving fullest particulars as to age, height, previous experience, references, etc., to Ralph M. Ling, Chemist, Cromer.

RELIABLE Assistant wanted. Burrows, Chemist, Gainsborough.

RELIABLE Assistant wanted; smart Counter hand; good appearauce; comfortable berth. Maunder, Chemist, Teignmouth.

REQUIRED at once, a Dispenser, strictly temperate, by a firm of Surgeons in the North of London. Apply to "Drs.," 2124 Stroud Green Road, N.

SMART Counterman and Window-dresser wanted for quick Cash business in London. State age, references, experience, salary, and when disengaged to "Sapon" (23/28), Office of this Paper.

T B. AUKINS, LTD., Tamworth, Pharmaceutical Chemists, require a good working Assistant about 25 to 30; good experience; expected to dress window and keep stook and stock rooms in order; salary 35s. weekly; must be a good Salesman.

THOMPSON & CAPPER have vacancies for unqualified Assistants and a qualified Manager. Send full particulars and photograph (if possible) to Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED Assistant wanted immediately for Retail and Dispensing business; outdoors; easy hours; no Sunday or Bauk Holiday duty. State age, height, salary required, and when disengaged, giving full particulars of experience and references, Kitching, Oakengates, Salop.

UNQUALIFIED; age about 25; Counter and Dispensing, including N.H.I.; good-class business. State salary required and experience, Vince, Pharmacist, Lancaster.

UNQUALIFIED Junior, or lady with Hall qualification and shop experience; healthy town; no Sunday or after business duty; inexpensive lodgings obtainable. State age, salary required, references, and usual particulars to J. H. Herington, Pharmacist, Dunstable.

UNQUALIFIED Assistant wanted at once; no Sunday duty and half-holiday weekly; hours reasonable. Apply, with full particulars as to age, salary, and reference, to Innes & Son, Chemists, Stalybridge.

W. CHAS. SAYERS, 63 High Street, Lewisham, S.E., required an Assistant; outdoors; permanency. Please send full particulars with application.

WANTED, an unqualified Assistant. State age, salary required (outdoors), Clare & Hunt, Scarborough.

WANTED, Lady Dispenser, qualified with either the Minor or the Apothecaries' Hall qualification. Apply, giving full particulars as to experience, etc., to "Dispenser" (58/46), Office of this Paper.

WANTED immediately, qualified Dispenser: Apply by letter, stating experience, salary required, and when able to commence duty, to Dr. Partridge, 414 Old Kent Road, S.E.

WANTED, an Assistant, accustomed to Mixed Country business; indoors. Apply, D. Davies, Castle Pharmacy, Pembroke.

WANTED, Junior or Improver, accustomed to Dispensing; moderate hours; half-hol-day weekly. State age, experience, and salary required (outdoors), also reference, to A. Richardson, Pharmacist, 439 Hessle Road, Hull.

WANTED immediately, qualified Assistant or Locum for goodclass Dispensing business; outdoors. State usual particulars to Howard & Son, Pharmaceutical Chemists, Tunbridge Wells.

WANTED, reliable Junior for high-class Dispensing and Family business; outdoors; two kept. State references, age, salary required, and all particulars, J. B. Pater, Broomhill, Sheffield.

WANTED, competent Assistant; good references essential. Roper, Ebrington Street, Plymouth.

WANTED, an Assistant with a good general knowledge of the business; capable of taking charge when necessary; Extractor. "Xaxa" (23/36), Office of this Paper.

WANTED, a reliable Assistant (unqualified); one used to Dispensing; of gentlemanty appearance and of good character and sober habits. Apply, personally if possible, to 290 Brixtou Roud, London, S.W.

WANTED, Junior Assistant for N.H.I. pricing and checking office near Manchester; hours 8.30 to 6 p.m. Apply, stating age, experience, and salary required, to "E." (21/11), Office of this Paper.

WANTED, thoroughly reliable unqualified Assistant (single) for important town in Eastern counties; must be good counterman and accurate Dispenser; outdoors; knowledge of Photography preferred, but not essential; must have good references. Apply, with usual particulars, to "Kino" (20/31), Office of this Paper.

WANTED, Junior or Improver for seaside business; moderate hours. Send full particulars to Walker & Harris, Ltd.,

WANTED, Junior, Improver, or Part-time Assistant. Full particulars to Jeans, 151 Oxford Road, Manchester.

WANTED, early in April, qualified Junior Assistant; indoors; accustomed to good-class Dispensing. Usual particulars, with photo, to Collins, Woodhall Spa, Lines.

WANTED, qualified Assistant, experienced and good Salesman, if by letter enclose photo (to be returned), or personally to R. S. Starkie, 126 Strand.

WANTED, Junior Assistant. Apply. to Roberts & Co., Chemists, 2 Rupert Street, W.

YOUNG qualified man for good Dispensing and Light Retail (outdoors) wanted early in May. Downing, 257 Archway Road, Highgate, London, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in accase be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SOUTH COAST.—Dry Counterman required; experienced; comfortable permauency if suitable. Please state age, salary expected, etc., Timothy White Co., Ltd., Portsmouth.

CHEMICAL hand, with experience in the manufacture of Medicinal Chemicals, wanted; wages 45s. Apply, 61/16, Office of this Paper.

COUNTERMEN wanted at once; Juniors for both Wet and Dry Counters; export experience preferred; also girls for labelling, capsuling, etc. Apply by letter, stating previous experience, age, and wages required, to "Extracts" (62/38), Office of this Paper.

EXPERIENCED Capsule Maker required for machine work; also youth, with some knowledge of Granulation, as Improver to Tablet Making; permanent employment and good wages for competent men. Apply by letter, giving experience and references, to John Bichardson & Co., Leicester, Ltd., 10 Friar Lane, Leicester.

EXPERIENCED Representatives wanted for Manchester house; smart, energetic men to call upon Chemists and Doctors; good connection already established; permauent and progressive positions to suitable persons. State full particulars and salary required to 20/30, Office of this Paper.

HOSPITAL Laboratory Assistant.—Boy, aged about 16, wanted to do X-Ray Developing, Clerical work, etc., and to help in post-morten room; wage commencing at 128.6d, a week, with tea. Apply Secretary, 'koyal Hospital for Chest Diseases, City Road, E.C., giving three testimonials as to character, etc.

INVOICE Clerk (male or female) wanted by a Wholesale firm of Chemists and Druggists; fair knowledge of the trade and quick at figures essential. 25/25, Office of this Paper.

ABORATORY Man to take entire charge of manufacture of special preparations and Todet Articles. Apply, giving full particulars of previous experience and wages required, to Roberts & Co., 76 New Bond Street, W.

LADY Clerk required, with some Pharmaceutical knowledge.

Apply, "G. F.," Messrs. British Drug Houses, Graham
Street, City Road, E.C.

MAN wanted, able to Manage Packing Room Staff, make Preparations, and Manage Distributing Centre for Branch shops must know something of Prices and Supplies; permanent progressive position. State age, married or single, when disengaged, experience (all applications treated in confidence), Lion Drug Stores, Brighton.

MINOR.—There is a vacancy in the offices of a large firm of Manufacturing Chemists for a Junior Assistant holding the minor qualification; the position affords exceptional facilities for a young man to acquire the routine of the Wholesale trade. Apply, stating age, experience, and salary required, to 62/55, Office of this Yaper.

PERFUMERY Foreman required, accustomed to make all Tollet and Perfumery preparations. Fullest particulars to "Lavender" (55/59), Office of this Paper.

QUALIFIED Chemist wanted, with Manufacturing experience and used to Wholesale trade. State age, experience, and salary required, 22/6, Office of this Paper.

REQUIRED at once, Packer for Wholesalo Export Druggists in the City; must have had previous experience: Apply, by letter, giving full particulars and salary required, to "Packer" (56/72), Office of this Paper.

REQUIRED, young man, used to Patent Medicines and Druggists' Sundries. Write, stating age and salary required, to 1652, Sells' Advertising Offices, Fleet Street, E.C.

SMART unqualified assistant required to travel Birmingham and district for firm manufacturing and packing cheap lines; occasional indoor duty (about one day a fortnight); good Salesman; sound prospects to intelligent and industrious man. Full particulars as to age, experience, and salary in first letter, Gibsou, Manufacturing Chemist, Gooch Street, Birmingham.

S TRONG Boy wanted, about 15; sixth or seventh standard.

Apply, Meggeson & Co., Ltd., 14 & 15 Miles Lane, Upper Thames Street, E.C.

SUNDRIES Department.—Wanted, experienced man for collecting orders in the department for despatch (no packing), state age, experience, and salary required to Southall Bros. & Barclay, Ltd., Birmingham.

TRAVELLERS wanted in country districts to sell first-class make of Fly Catchers as a side line; exclusive territory granted to men with the right connections; send particulars, age, experience, and exact ground covered; must pass Guarantee Society at advertiser's expense. Write, "G.," c/o Abbott's, 32 Eastcheap, E.C.

W.ANTED, Assistant for Wet Counter; experienced; good references essential; married man preferred. Apply, with full particulars, to E. H. Butler & Son, New Haymarket, Leicester.

WANTED at once, two Packers accustomed to Drug Packing; must have good references and be thoroughly reliable. Apply to "C. M.," 50 Southwark Street, London, S.E.

WANTED, young men, 25 to 35, with experience in Packing and introducing Proprietary articles; must be good Managers and Organisers; willing to undergo preliminary training with a view to qualifying as Managers of Colonial branches of large Proprietary Medicine Co.; must be possessed of initiative, conserved appacity, and ambitiou. Apply, with full particulars, 60/68, Office of this Paper.

WANTED at once, a smart Boy who has just left school, for Office work. Kindly write full particulars to "W. C. H.," 46 Southwark Street, London, S.E.

WAREHOUSEMEN experienced in Druggists' Sundries required, Apply, "A. T." (62/39), Office of this Paper.

WET or Dry hands wanted, with some experience; age 18-20. Apply, stating full particulars of age, experience, and wages expected, to 21/16, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

38. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CANADA.—Situation offered to competent and trustworthy Belgian Pharmacist speaking English and French; would arrange for transport charges. Write to United Drug Co., 114 Old Hall Street, Liverpool.

QUALIFIED Chemist's Assistant wanted for British East Africa, with a knowledge of Photography; salary first year £300, second year £325, third year £350; second-class passage paid out. Apply by letter, stating age and qualifications, and enclosing copies of testimonials, to Davis & Soper, 54 St. Mary Axe, London, E.C.

SITUATIONS WANTED.

is, for 12 words or less; 6d. for every 10 words of less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A DVERTISER, qualified, 33, good appearance and address, London, provincial experience, disengaged in May; undeniable references; City, W., S.W. preferred; at present managing in the provinces; state salary offered; replies treated with strict confidence. 20/2, Office of this Paper.

A DVERTISER seeks berth in small genuine Drug Store (non-poisonous); view to succession; eash down, balance by arrangement; neglected entertained if scope; London or suburbs. "Genuine" (23/9), Office of this Paper.

A S Manager or Senior; qualified; middle age: height 5 ft. 5 in.; town and country experience; disengaged April 25. "D.," Old Lodge, Great North Road, Woodlands, Doncaster.

A S Manager or Loeum; capable; disengaged; single. "Lama," 25 Blandford Street, Newcastle-on-Tyne.

A SSISTANT; Counter, Dispensing, Window-dresser; obliging; disengaged. 7 Enderley Buildings, Bellefield Road, Birming-ham.

A SSISTANT; unqualified; 23; Counter, Dispensing, etc.; state salary and hours; good references; capable sole charge; disengaged end of April. 22/26, Office of this Paper.

A SSISTANT or Locum for the summer season; best experience and excellent references; single; 35; Salesman, Windowdressing, and Dispensing. Nicholson, 27 Kirgsfield Road, Southampton.

A SSISTANT or Locum; 29; unqualified; experienced; disengaged; well recommended. State hours and salary offered, Alexander, 24 Bouverie Square, Folkestone.

A SSISTANT, unqualified (23), requires re-engagement; Counter and Dispensing; good-class trade; good all-round experience and reference; Midlands preferred. 22/32, Office of this Paper.

A SSISTANT; age 40; Mixed business; country preferred; allround experience; good references. 22/20, Office of this A SSISTANT, 40, married, 5 ft. 9 in., General, all-round, Phetography, Dispensing; good Preseriber; reliable; used Sole Charge; South or South-West England preferred; unqualited; liberty 10th. "Optimus" (22/017), Office of this Paper.

BERTH desired in small genuine business (non-poisonous); London or suburban; arrange early succession. "Trnetworthy" (23/09), Office of this Paper.

COMPETENT, experienced man wants situation in North of England, East Coast, or near preferred; age 30; married. Apply, 24/31, Office of this Paper.

DISENGAGED; permanency; Locum; qualified; excellent references; moderate terms. 8 Windsor Crescent, Mannameal,

DISENGAGED May 3; unqualified; tall, gentlemanly, young; Dispensing and Photographie, etc.; exceptional experience; London, W., preferred; good salary essential. "Essex "*(23, 23, Office of this Paper.

DISPENSER (lady), unqualified, seeks post; Doctor or Chemist; good experience; thoroughly reliable. 22/11, Office of this Paper.

ELDERLY as Manager or Assistant; good references; salary moderate; in or outdoors. "Qualified," 42 Harvey Street, Folkestone.

EVENING Locum from 6.45; near City. "D.," 3 Kent House, Parson's Green.

EVENINGS; Lady Dispenser; N.H.I. qualification; experienced. "E. B.," 140 Green Lanes, Stoke Newington.

EVENINGS, 3 or 4 weekly; all-round experience. Terms to 24/6, Office of this Paper.

EXPERIENCED qualified Manager, with excellent credentials, desires change. "X.," 138 Holloway Road, N.

JUNIOR; 21; unqualified; excellent references; well experienced 5-8 state salary; London preferred. 20/11, Office of this Paper.

JUNIOR requires a few hours daily in or near London. Apply, "Sodium" (21/24), Office of this Paper.

LADY Dispenser-Bookkeeper (unqualified) seeks post with Doctor for Chemist or Dental Surgeon; nearly six years present berth; in or near Cardiff preferred, though not essential; live out moderate salary. Write, 24/1, Office of this Paper.

ADY Dispenser, Hall, three years' experience, excellent testimonials, desires post with Doctor or Justitution; in or near London preferred. 22/29, Office of this Paper.

LOCUM; season or relief; 40; unqualified; all-round; Photography, Dispensing, Prescribing, also Agricultural. 22/17-Office of this Paper.

LOCUM; unqualified; experienced, reliable; total abstainer; few open dates; London only. "Statim" (24/38), Office of this Paper.

LOCUM or Permanency, qualified; 38; disengaged; Dispensing experience. Chemist, 54 Bell Street, N.W.

L OCUM, qualified; well experienced in routine of Pharmaey and Drug Stores; good references; disengaged April 11. "N.," Ordnance Place, Shooter's Hill, Woolwich.

M.P.S. and F.S.M.C. (43), experienced and highly recompartnership or succession entertained; married; permanency. 22/37, Office of this Paper.

MANAGER or Senior (29), qualified, London and country experience, requires permanency in May. "Cymro" (20/57), Office of this Paper.

MANAGER or Senior, qualified; West-End and good-class previncial experience; young, energetic; abstainer; tall; highest excernees; disengaged. R. Bolton, High Street, Kibworth; Leicester.

MANAGER, qualified, experienced, desires position with view to early succession. "London" (24/5), Office of this Paper,

MANAGER or Senior in London; qualified; 28; tall; married; West-End experience. 23/7, Office of this Paper.

MANAGER; 39; qualified; married; active; reliable; well trained; good refractionist; London or South Coast preferred. "Focus" (25/19), Office of this Paper.

PART-TIME; unqualified; London and provincial experiences competent; London only. 20/12, Office of this Paper.

ART-TIMB wanted; experienced Dispenser and Bookkeeper; sober; reliable; highest references; Doctor preferred. "H.," Bridge Road, St. Margarets, Twickenham.

ART-TIME, evenings; North London preferred; experienced. Address, 22/28, Office of this Paper.

ART-TIME work wanted by qualified lady Dispenser; London; mornings and evenings. 25/21, Office of this Paper.

ART-TIME; qualified; 36; would purchase. 25/23, Office of

DHARMACIST, abstainer, young, married, requires position as Manager in up-to-date business; must have good prospects d permanent. 21/36. Office of this Paper.

UALIFIED (25), disengaged, 7½ years' experience, desires Locum work in or near London. Smith, 199 Broomwood oad, West Side, Clapbam Common.

UALIFIED; 27 years; 12 years' good experience; used to taking charge. "English," Silloth, Cumberland.

UALIFIED: 28; tall; good all-round experience, with good knowledge of Photographic work. 19/4, Office of this Paper.

UALIFIED; good Dispenser; London only; short hours preferred. 19/5, Office of this Paper.

UALIFIED; 34; London man; good appearance; free in May; City or S.W. Reply, 20/02, Office of this Paper.

UALIFIED Manager; married; Loudon; expert Salesman, Window-dresser; permanency. "M.P.S.," 22 Devonshire oad, Clapham.

UALIFIED; 25; good references; disengaged. "Statim," North Hill Pharmacy, Plymouth.

UALIFIED 1911; age 31; married; abstainer; good Dispensing, Photographic, and Agrienltural experience; 5½ years resent situation; desires change. 24/33, Office of this Paper.

UALIFIED Chemist (age 48) desires post as Manager iu good-class business with view to interest or Partnership; near ondon preferred; first-rate all-round experience in all branches. pply, "Permanent" (20/5), Office of this Paper.

UALIFIED lady desires post as Dispenser to Doctor or Chemist; mornings or early afternoons only; London. Davies, lift Edge, Slade Road, Mnmbles, Glam.

UALIFIED; Locum, permanency; 36; married; Counter, Dispensing; disengaged. Stewart, 3 Elborough Street, Sontbelds, S.W.

UALIFIED; outdoors; single; middle aged; smart Counterman; thorough West End, City, and French experience; excellent estimonials; shortly disengaged. 23/12, Office of this Paper.

QUALIFIED; 33; Manager; experienced Dispenser; good-class experience; trustworthy; disongaged. "Read," 1 The acade, Stroud Green Road, Hornsey, N.

UALIFIED; middle-aged; single; moderate terms; live at premises preferred. "Attention" (24/36), Office of this aper.

BEGISTERED Druggist, Belfast (28); tall. experienced; capable of taking charge; desires change. 24/35, Office of this aper.

TUDENT; evenings 6 to 8; first-class Dispensing experience.
Allman, 23 Kenilworth Road, Ealing.

WISS Pharmacist, qualified, Analytical and Bacteriological Chemist, speaking three languages, three years' London and Vest-End experience, seeks situation in Retail, Wholesale, or tanufacturing business. "A. G. B.," 1 Crawshay Road, Brixton, condon, S.W.

NQUALIFIED (24) requires Part-time; evening work; South London, near Colleges preferred; good references. Apply, Medico," 56 Bromfelde Road, S.W.

MQUALIFIED (28), married, seeks situation in or near London; permanency; state salary, hours; disengaged sbortly; themist or Doctor. 24/12, Office of this Paper.

UNQUALIFIED Assistant as Senior, reliable; West-End experience; excellent references: "B. R.," 164 Clapham Road, London.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in so case be forwarded, the Pox numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communiostions received which he may consider contrary to this rulo.

A DVERTISER, fully qualified, young, active, with 20 years' sound selling experience, invites negotiations with well-known firms with view to special outside Representation, London and district; undeniable references. 21/8, Office of this Paper.

A DVERTISER, with extensive connection with the Medical Profession and Pharmaeists in London and provinces, wishes to represent a good firm; has been most successful in pioneer work; would entertain good side lines. "Medico" (25/5), Office of this Paper.

EXPERIENCED Works Chemist, Major qualification, seeks responsible position in Manufacturing or Analytical Laboratory; thorough knowledge of Pharmaceutical and Chemical manufactures; total abstainer. 22/23, Office of this Paper.

OVER 25 YEARS

WITH Bourne, Johnson & Latimer. I am now disengaged and am ready to accept position of Buyer, Cashier, Ledger Clerk, Office Manager, or Traveller. Write to me to-day, A. T. Lake, 77 Harold Road, Leytonstone, N.E.

TABLET Maker; 20 years' first-class experience; good organiser.
"E. B. W." (21/3), Office of this Paper.

TRAVELLER (30), married, smart, experienced Salesman, late with German Proprietary Goods house, desires re-engagement; sound connection North of England and Scotland. 23/14, Office of this Paper.

WAREHOUSEMAN and Stockkeeper; 9 years' experience, Patents and Sundries. 22/30, Office of this Paper.

WETS, Drys, Packed Goods; Manager or Foreman; 20 years' experience; age 38; good references. "H.," 35 Lammas

WHOLESALE Pharmacist, calling on Doctors, wants another Agency on commission. 25/023, Office of this Paper.

YOUNG gentleman (28) desires responsible position; all-round experience, Retail, Pharmacentical, and Wholesale; enthusiastic, systematical; now controlling large female staff. "Nondonus" (18/4), Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependence or elsewhere abroad.

INGLISH Pharmacist, with many years' experience of the Drug-trade, just returned from the East, open to berth as Manager or Senior in good-class Pharmacy, at home or abroad; ready to begin at any moment. Write to "Rex," 44 Bonsor Road, Twickenham.

Refugee Belgian Pharmacists.

This section is devoted to the announcements of Belgian confrères at present in this country. We shall be pleased to insert gratis announcements of a similar observed from others who are seeking situations in the Drng trade. Cette section est réservée pour les annonces des confrères belges qui se trouvent actuellement dans ce pays. Nons serons heureux d'insérer gratis des annonces semblables de cenx cherchant des places dans le commerce des drogues.

BELGIAN diplomaed Pharmacist (36), unmarried, desires situation, indoors or outdoors, in Pharmacy, Drug Store, Wholesale Honse, Laboratory, or Hospital: in or near London preferred; good references. M. Renard, 55 Downs Road, Clapton,

BELGIAN Pharmacist, gradnate of Louvain University, 3 years' experience at Vilvorde Hospital, desires employment in or near London; speaks French, Flemish, and a little English, Kindly write, giving full particulars, to A. Zech, Coloma, Croydon.

MISCELLANEOUS.

A DVERTISERS are open to buy job lots of these at full prices. 256/32, Office of this Paper.

ANILINE COLOURS WANTED.

WE are open to purchase old stocks at best prices. Send par-ticulars and samples to James A. Beck & Son, Ltd., Dalton

HOPFITTINGS (Second-hand).—12-ft. Plate-glass fronted and solid Mahogany Counter, £8 10s.; 10-ft. ditto, £7 5s.: Perfumery Case and Desk, nuiror box, glass shelves, solid Mahogany, 57s. 6d.; 6ft. Mahogany and Bent Plate-glass Counter Case, 92s. 6d.; other bargains. Philip Josephs & Sons, Ltd., 93 Old

SECOND-HAND Chemist's Fittings.—We have an exceptionally fine selection of these-in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S.E. Hackett, 23 July Road, Liverpool, E.

CHEMISTS' Shopfittings.—Silent Salesman, Showcases, Windowenclosures, Dispensing-screens, Drug-fittings, Wallcases, Glassfront Counters, Counter Drawers, etc., at lowest prices; shopsoiled second hand; 30 years fitting pharmacies; you will save time and money by sending your requirements to George Cook, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street. London.

CHEMIST.—Complete set of modern Fittings; good second-hand; 12-ft. Drug Fitting, complete; 10-ft. Glass-fronted Counter; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; 4-ft. Mahogany Bent Plate-glass Counter Case; 6-ft. Mahogany Wall Case; £43 10s. the lot; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; designs, estimates free. MILLS, Shop Freat, Shop Fitting. Glass Façia Works, 163-5 Old Street, London, E.C. 'Phone 550 London Wall.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST. AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist." 42 Cannon Street, London, E.C. Adalin, powder and tablets Euresol pro capillis (24/32) (24/32) Lethhyol ammon. (24/32) Nivea soap (24/32) Sajodin tablets (24/32)

Beta-eucaine (16/5) Ceredin pills (24/32) Chinosol, powder and tablets (24/32)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall

place them in touch with sellers: Alumnol (20/27) Alumnol (20/27)
Apomorphia (20/27)
Beta-eucaine (20/27)
Butyl-chloral hydrate (20/27)
Cellotropin (20/27)
Codrenine (20/27)
Diuretin tablets (20/27)
Ethyl. morph. hydroch.
(20/27)
Hæmoneurol (20/27) Hæmoneurol (20/27) Ichthalbin (20/27) Ichthyol B.P.C. (20/27)

Lycopodium (20/27) Paraldehyde (20/13) Phenocoll. mur. (20/27) Potassium chlorate cryst. (22/36) Salacetol (20/27) Sodium salicylate (Schering) (22/36) Sulphonal (20/13) Tannalbin (20/27) Tiodine pills (20/27)

EXCHANGE COLUMN

One halipenny per word with name and address. One penny per word if we register the address and attach a number. Ne advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively tor specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

MINOR books, Will's books, Southall's Materia Medica, Lucas's "Pharmacy," B.P., etc.; cheap. 21/306, Office of this Paper.

DRUGS AND CHEMICALS.

WHAT offer for 12 1-oz. bottles cocain, hydrochlor., 1 lb. succharin tublets, gr. 1/2 (Kerfoot)? 22/27, Office of this Paper.

WHAT offers? 7 lb. cach sodium salicylate pulv. B.P. and physio. pure, finest quality; 4 lb. hexamine; if no reply, offer not accepted. Williamson, Pharmacist, Congleton.

OPTICAL AND PHOTOGRAPHIC,

LEITZ microscope, 3 eye-pieces, 3 objectives, 80 Minor slides; perfectly new condition; bargain £4 lot. 21 '036, Office of this Paper.

SHOP FITTINGS.

THREE gross new 4-oz. round-stoppered reagent bottles, 21s. per gross; also 7 gross 3-oz. W.M. round bottles for tooth or shaving powder, with metal revolving slot tops, 24s. gross; samples sent Maurice Smith, Kidderminster.

MISCELLANEOUS.

SOUTHALL'S 55s. materia medica collection; brand new; 30s-21/360, Office of this Paper.

WHAT offers? Several dozen of new white stoneware jars, suitable for ink or disinfecting fluid, quarts, pints, etc.; also several dozen good photo mounts from 1-plate upwards. Salter, Chemist, Dawlish.

WHAT offers for about 12 lb. sodii sal., phys. pure, guaranteed; 1 oz. cocain; about 3 oz. cocain. hyd.; 1 lb. ac. accto-sal.; 1 lb. ac. salicylic.; ½ oz. morph. sulph.; 5j. atropin.; ½ lb. podophyllin soluble. 19/31, Office of this Paper.

WANTED.

COUNTER scales. Particulars and price, Sellers, Sherburn-in-Elmet, Yorkshire.

MINOR books immediately. Submit list and state price, Shelley, 36 Caldmore, Walsall.

ENTIRE pharmacy fittings and rounds for branch. Hankinson's, 223 Ilford Lanc, Ilford.

TABLET compressing machine; Colton's No. 5 preferred. "Menthol" (61/17), Office of this Paper.

WANTED, small ointment mill, second-haud, in good condition-Send particulars to R. R., 62 Hathaway Road, Croydon.

ONE 20 ft. O cylinder and several 50 gall, and 100 gall, angle N20 cylinders required immediately. State lowest price, 20, 1,

Office of this Paper. OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

WANTED, Bennett's "Pharmaccutical Latin," "The Chemist-Optician," Hayward's "Botanist's Pocket Book." State lowest price, Sidebotham, Robin Lane, Pudsey.

WANT job lines of 1 oz. Bovril, 1s. 6d. Benger's Feed, 1s. 6d-size Horlick's Milk; must be in good condition. Send details to Matthews, Medical Hall, Royston, Herts.

Contracts for Drugs, etc.

The following information regarding contracts for drugs and other articles in which our subscribers are interested has been received since our last issue :

Barking Urban Council.—Adcocks, Ltd., and Easton & p., disinfecting-fluid; Burt, Boulton & Heywood, Ltd.,

Co., disinfecting-fluid; Burt, Boulton & Heywood, Ltd., disinfecting-powder.

Bethnal Green Guardians have been recommended to accept the tenders of the following: J. L. Smith & Nephew, Ltd., Burgoyne, Burbidges & Co., S. Maw, Son & Sons, Carnegie Bros., the Surgical Manufacturing Co., and J. F. MacFarlan & Co., surgical dressings; Burgoyne, Burbidges & Co., surgical appliances. The Board was unable to obtain tenders for drugs and druggists' sundries; consequently several firms were communicated with, and ultimately arrangements were made with Corbyn, Stacey & Co., Ltd., for monthly supplies at 33½ per cent. off list-prices.

Beverley Guardians.-Mr. W. T. Goldthorpe, chemist,

Bishop's Castle Guardians.-Mr. J. E. Gwilliam, chemist,

surgical appliances. Guardians .-- Middleton Brcs., Ltd., disin-

Brentford

Burnley Guardians.—Corbyn, Stacey & Co., Ltd., drugs; Mr. George Foster, chemist, Burnley, surgical dressings; Hartleys, chemists. Burnley, concentrated mixtures.

Burton on Trent Guardians.—Liverpool Lint Co., lint and

Carnarvon Guardians.—Mr. J. Francis and Mr. J. H. Jones, chemists' goods. Chelmsford Guardians. Corbyn, Stacey & Co., Ltd.,

drugs and dressings

Chester le-Street Guardians.-J. Ismay & Son, Newcastle-

on-Tyne, drugs.

Croydon Borough Hospital.—British Drug Houses, Ltd., drugs; Hospital and General Contracts Co., Ltd., surgical

Croydon Mental Hospital.—Society of Apothecaries, drugs

and druggists' sundries.

Dudley Town Council.—Killgerm Co., Ltd., disinfectant duid, powder, and soap: W. Davies, white Windsor soap.

Faversham Town Council.—Mr. T. J. Thomas appointed chemist for one year

Grantham Guardians.—B. & J. Fillingham, chemists. Grantham, chemists' goods.
Hastings Guardians.—Mr. J. G. Richards, chemist,

Hinckley (Leicestershire) Guardians .- Messrs. Pridmore,

appointed chemists. Holywell Guardians.-Mr. David Hughes, chemist, Holy-

well, chemists' goods.

Hull Corporation (Hospital Committee).—Mr. B. M. Stoakes, chemist, aërated waters; Sayers, Silcox & Co., surgical dressings; Mr. H. Leggott, chemist, drugs; Major & Co., Ltd., carbolic aeid; Alpine Co., carbolic fluid (20-per-

Lancaster Guardians.—Mr. R. S. Angus, chemist, drugs.
Leyton Urban District Council.—Mr. T. H. Seed, chemist,
Leyton, drugs and druggists' sundries to Isolation Hospital.
Liverpool City Council for City Hospitals.—R. Sumner &
Co., Ltd., drugs; Evans Sons Lescher & Webb, Ltd., druggists' sundries.

Vanabacter. Corporation. Here'tal.

Manchester Corporation, Hospitals Sub-Committee.—
Manchester Corporation, Hospitals Sub-Committee.—
Mottershead & Co., Liverpool Lint Co., Ltd., J. Woolley,
Sons & Co., Ltd., W. W. Hill, Son & Wallace, Ltd., and
Edme, Ltd. (London), drugs, druggists' sundries, and dressings. Tramways Department.—J. Woolley, Sons & Co., Ltd., Merthyr Tydvil Guardians.—Mr. V. A. Wills, chemist,

Paddington Guardians have been recommended to pay he claim (23/. 11s. 3d., made by Corbyn, Stacey & Co., td., in respect of drugs supplied, the prices of which have

Pembroke Guardians.—Mr. D. Davies, chemist, chemicals.
Peterborough Guardians.—Bodger & Co., chemists, drugs.
Romsey Guardians.—Mr. F. Oram, Ph.C., Romsey, drugs nd surgical dressings.

Runcorn Guardians.—Mr. J. H. Weston, chemist, Runcorn, drugs and dressings for Dutton House.
St. Pancras Guardians.—S. Maw, Son & Sons, surgical astruments and appliances; B. Pratt & Co., dressings; aangers, dressings and proprietary articles; Pocock Bros., vater-bed; C. Greenacre, optical goods.

Salford Town ('ouncil.—Hardman & Holden, Ltd., oxide firon (1,100 tons); R. Jehnson & Sons Ltd., soda-ask-

British Oxygen Co., Ltd., oxygen. The Council is to purchase sample consignments of 50 tons of oxide of iron from J. Hardman, Ltd., and T. Duxbury & Co.
Sheffield Guardians.—McDougall Bros., Ltd., pine-

powder; Brunner, Mond & Co., Ltd., soda.
South Stoneham Guardians.—W. Bates & Co., Ltd.,

South Stoneham Guardians.—W. Bates & Co., Ltd., chemists, Southampton, medical requisites.

Southwark Borough Council has been recommended to accept the tenders of the following for annual supplies of disinfectants: Adcocks, Ltd., United Alkali Co., Ltd., Alfred Young & Co., and Newton, Chambers & Co., Ltd. Stourbridgo Guardians.—Mr. A. J. West, chemists' goods.

Tottenham District Council.—Adcocks, Ltd., chloride of lime; Newton, Chambers & Co., Ltd., Izal and Kymol; Burt, Boulton & Heywood, Ltd., carbolic-powder, carbolated creasote, Ialine, pine-oil fluid; the Sanitas Co., Ltd., for Okol and formalin solution.

Wandsworth Guardians.—Messrs. Williamson, Ennes, Dee, and Watson & Co., for supply and dispensing of medicines for the outdoor poor for one year.

Wigton (Cumberland) Guardians.—Mr. R. H. Brown, chemist, drugs.

chemist, drugs.

At a meeting of Richmond (Surrey) Guardians on March 31, a letter was read from Corbyn, Stacey & Co., Ltd., the contractors for drugs, stating that they were not prepared to accept one month's notice on either side to prepared to accept one month's notice on either side to determine the contract, as such a stipulation would not sufficiently protect them in these difficult times, and they could not afford to be penalised for failure to supply owing to causes beyond their control. A member suggested that the drugs required could be purchased locally, but this was opposed on the ground of expense and the probability of not being able to obtain all the drugs required in the town. The Board decided to renew the contract with Corbyn, Stacey & Co., Ltd., omitting the objectionable clause.

At the recent monthly meeting of the Pembrokeshire Education Committee the School Attendance Committee recommended that Mr. J. H. Llewellin, chemist and druggist, Milford Haven, the contractor for the supply of gist, Milford Haven, the contractor for the supply of spectacles to school children, be informed that his contract would terminate at the end of June, 1915, and that at their next meeting the Committee consider a circular-letter the contractor had addressed to the parents of school children. It was stated that Mr. Llewellin secured the contract two years ago, and in several cases he had made an agreement with the present of school children to ray security appears. with the parents of school children to pay something above the contract price for superior spectacles, but as some of the parents were in poor circumstances the Committee decided to pay the money for the spectacles. The circular complained of was as follows: "Dear Sir,—I am surprised complained of was as follows: "Dear Sir,—I am surprised to find that your name is included in a list given me by the County Council Education Authority, to be entered in the County Court next week. I trust, in your case, a remittance will be sent me within the present week to avoid any further unpleasantness." The School Attendance Committee stated that the issue of this circular had not been authorised by the Education Committee, and it put that Committee in a false position. The recommendation was agreed to.—In order to remove apprehensions which may have been formed, Mr. Llewellin has issued a public letter stating that he has asked for nothing more than is otter stating that he has asked for nothing more than is due to him. His extra charges for superior frames, he points out, were sanctioned by the Committee, and his applications to defaulting parents were authorised by the Director of Education.

Deed of Arrangement.

Gibson, James Alfred Phillip, 7a Crocus Street, Nottingham, and residing at Castle Donnington, Wholesale Druggist and Oil Merchant.—Trustec: F. W. Green, Nottingham, accountant. Dated, March 25: filed, March 30. Liabilities unsecured, 489l.; estimated net assets, 265l.

Wills.

MR. WILLIAM SMITH, chemist and druggist, 18 Bradgate Road, Catford, London, S.E., who died on February 8, left estate of the gross value of 9,446l. 0s. 4d., of which 7,746l. 11s. 7d. is net personalty.

MR. SAMUEL THOMAS ELBOROUGH. 18 Kidderporc Gardens, Hampstead, London, N.W., managing director of Lawes Chemical-manure Co., Ltd., who died on February 17, left estate of the gross value of 22,058l. 7s. 8d., of which 21,941l. 17s. 8d. is net personalty.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

New South Wales.

MOLYBDENUM SUPPLY.—Molybdenite ore was formerly shipped to Germany for the purpose of extracting molybdenum. Works have now been erected at Sydney, and over 100 tons of the metal will shortly be ready to be sent to

DENTAL AMENDMENT BILL.—On February 9 the Premier stated that representations had been made about the Bill

stated that representations had been made about the Bill which justified it being laid aside for the moment until inquiries had been set on foot. It will not be pushed forward to completion this Session.

THE WEIGHTS AND MEASURES BILL has been introduced into the Legislative Assembly. The Weights and Measures Act at present in force was passed in 1852; it was consolidated in 1902 without amendment. The object of the Bill is to bring the weights and measures legislation up to date. Among other provisions, any article sold in packets and not weighted in the presence of the purchaser must have the net weight when packed marked on the packet. The Bill is to give effect to the findings of the Royal Commission which sat in 1906 and recommended most of the provisions now brought forward.

now brought forward.

now brought forward.

VETERINARY SURGEONS BILL.—On January 28 the Legislative Assembly passed a resolution that it is expedient to bring in a Bill to provide for the registration of veterinary surgeons qualified to practise in New South Wales. The Minister for Agriculture explained that the Bill is modelled upon the British Acts of 1881, 1890, and 1891, and the West Australian Act of 1911. A Board of seven is to be appointed—two members of the Sydney University, two members of the Royal College of Veterinary Surgeons of Great Britain, and three other members—to examine applimembers of the Royal College of Veterinary Surgeons of Great Britain, and three other members—to examine applicants and select those whom they think fit to be registered as veterinary surgeons. Those who have been practising from four to seven years could upon examination be registered as veterinary surgeons; those who have been practising for more than seven years would be registered without examination. out examination.

out examination.

PHARMACEUTICAL SOCIETY.—At the meeting of the Council on February 9, it was resolved to assist in raising money for the relief of Belgian doctors and pharmacists. A contribution of twenty-five guineas was voted by the Council, and the six members present each gave one guinea. If possible, a separate Australian fund is to be organised, failing which the money collected will be sent to the Pharmaceutical Society of Great Britain or the Belgian Consul. The President said the Veterinary Surgeons Bill has been introduced in Parliament, and is even more strict than the previous Bill; the rights of pharmacists have also received less consideration. If the conditions of registration are carried out there will be a dearth of veterinary surgeons when the Bill becomes law. In respect to the Dental Amendment Bill, the President said the Bill to the Dental Amendment Bill, the President said the Bill has passed the Upper House and may be considered by the Lower House at any time. The vested rights of chemists have not been safeguarded in the Bill, but there is likely have not been safeguarded in the Bill, but there is that to be a clause inserted giving pharmacists the right to extract teeth and perform minor dental operations. Mr. Gray called attention to the fact that the medical men and pharmacists of Great Britain have arranged to give free medical attendance to the families of men who have joined the Colours and to supply medicines at cost. The N.S.W. the Colours, and to supply medicines at cost. The N.S.W. doctors have agreed to a similar scheme, and he suggested that the Society might supply medicines.

Belgian Pharmacists' Relief.—The Melbourne South Suburban Chemists' Association on February 9 opened a subscription fund for the relief of Belgian pharmacists, thirty-two guineas being subscribed in the room.

Western Australia.

BLACK BOY AND ZAMA.—On January 28 the Legislative Assembly passed a Bill authorising the Minister of Lands to enter into an agreement with Henry Rowley to enable him to remove from Crown lands black boy and zamia palm, and extract from them certain commercial products. Mr. Rowley undertakes within twelve months from the completion of the agreement to expend not less than 1.000. in providing plant and machinery, and in the next twelve months a further sum of 5,000. He is to pay a royalty of 6d. per ton on all black boy and zamia palm removed from Crown lands, on the dry weight. These plants for many years have been preserved as movely usedes, to be choosed years have been regarded as merely useless, to be chopped down and burnt.

At the Counter.

A BOLTON CHEMIST had to dispense the following:

"1d. Syrup of Tyluc 1d. Syrup of Squills for a cough

1d. of something else, but I can't bethink me."
Almond oil was given as the third ingredient, and it seemed

to suit the purpose.—(59/26.)

ONE OF THE BEST we have seen for some time reads thus: Sear, wold you caindley give the barear of this note A omole botle of Armond Oile With A litel Ether & some of your very best Losings for A sor throte. I don't want cloridne slicks nor, victer, vc.

This comes from Halifax (1/54).

That the "Gospel of Socialism" is well preached to the rising Fifers is borne out by the following: Scene: Chemist's shop. Enters a maid of seven summers. Chemist: "Well, my dear?" Maid: "Two pence of Social Scr'ts.!" Chemist: "What is it for, girlie?" Maid: "For me and my two wee brothers." Rochelle Salts supplied. Socialist motto: "Divide in partes æquales."

KAFFIR EDUCATION UP TO DATE is represented in the follow-

ing letter to a Cape Town subscriber:

"I have the honour to inform you that the medicine I bought from you 3 bottles did not come here at home and as I said that you must send them down. The bottles and as I said that you must said them down. The bottles that have not come are the two bottles sent before the last bottles; the washing bottle and the bottle with eaten medicine. At last, I bought two bottles with medicine for washing only one came here. Please answer me very soon, Mary Jane is very ill. I can be very glad if that medicine will be sent down with great rapidity."

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, April 12.

Society of Chemical Industry, Londan Section, Burlington House, Piecadilly, at 8 r.m. Messrs. M. S. Salamon, B.Sa., and W. A. Seaber, B.Sa., on "The Detection of Small Quantities of Paraffin Wax in Beeswax and the Détermination of a New Constant for East Indian and European Beeswaxes:" Messrs. A. J. Hale and H. S. Foster on "The Action of Dilute Acids, Alkalies, and Salts on Certain Metals." Mr. A. Fraser on "A Method of Assaying Copper."

Wednesday, April 14.
Edinburgh Chemists', Assistants', and Apprentices' Association.
36 York Place, at 8.30 r.m. Annual meeting and election of office bearers.

Manchester Pharmaceutical Association, Albion Hotel, Piccoadilly, at 2.30 r.m. Annual meeting and paper by Mr. W. Karkby, M.Se., on "Pharmacopæia Revision."

Newcastle-on-Tyne Pharmacists' Association, Temperance Institute, Rutherford Street, at 8 r.m. Discussion on "Trade Matters."

Thursday, April 15.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, at 8 p.m. Mr. Harold Wyatt, Ph.C., on "Dispensing Notes."

Harrow Pharmacists' Association. Gayton Rooms, at 8.50 p.m. Mr. W. J. Uglow Woolcock on "National Insurance Difficulties."

THE SOUTH-WESTERN PHARMACISTS' ASSOCIATION of London will hold their annual dinner at Fraseati's on Wednesday, April 28, at 7 o'clock. Tickets for the dinner may be obtained from Mr. E. A. Atkins, 71 East Hill, Wandsworth, at 7s. 6d. each. The dinner is in aid of the Belgian Doctors' and Pharmacists' Relief Fund

THE rooms of the Chemical Society will be opened for an informal meeting on April 29, at 8 p.m., when the President and Council will be glad to receive Fellows. Smoking will be permitted, and light refreshments will be provided. Fellows are invited to exhibit apparatus and specimens of interest, and to show experiments; those Fellows wishing to do so are requested to communicate with the Assistant Secretary not later than Monday, April 26.

A LISBON CHEMIST is stated to have dropped four bombs upon a group of persons who wrecked his shop in the Caldas da Rainha. The chemist, it appears, is the local leader of the Democratic party, and had been subject to annoyance carlier in the day by some people who scoffed at a religious procession. The chemist is wanted by the police, but has fed. has fled.

CHEMISTS' PROFITS

DEPEND ABSOLUTELY UPON ACCURATE WEIGHING

The appearance of the name 'Avery' upon weighing apparatus means that quite apart from expedience, volume of production, or any other consideration, quality and reliability have been the first consideration of the makers, and that a strict system of testing and inspection has eliminated the possibility of faulty work

WE MANUFACTURE ESPECIALLY FOR CHEMISTS

DISPENSING SCALES FINE BALANCES
SPECIFIC GRAVITY AND ANALYTICAL BALANCES
CHEMISTS' PERSONAL WEIGHING MACHINES

METRIC WEIGHTS

TO COMPLY WITH THE NEW TABULATION OF THE BRITISH PHARMACOPOEIA

For particulars of the many types of Scales especially designed for Chemists please write to Service Department C

W & T · AVERY · LTP

(Established 1730, in the reign of King George II.)

SOHO FOUNDRY · BIRMINGHAM

Telephone 134 Smethwick.

Telegrams: "Avery, Birmingham."

or any of their 133 Branches and Depots throughout the British Isles



No. 71819





URO-HEXODS.

TABLETS OF UROHEXENE, A COMBINATION OF HEXAMINE AND LITHIUM BENZOATE. A SUCCESSFUL URINARY ANTISEPTIC, DIURETIC AND ANTI-LITHIC.

RETAIL 1/9 (50 TABLETS). P.A.T.A. 10/6 PER DOZEN.

CARBONIC ACID BATHS, B.D.II.

CHARGES FOR THE PRODUCTION AT HOME OF EFFERVESCENT BATHS, AS USED IN THE NAUHEIM TREATMENT.

RETAIL (PATA) 1/6 PER BOX 13/- PER DOZEN.

SANUSIN IN THE FORM OF 'SEMPULES,'

SANUSIN 'SEMPULES' ARE ALMOST SPECIFIC IN CASES OF HAEMORRHOIDS.

RETAIL 2/6 (PATA) 21/- PER DOZEN.

The above lines effectually replace German products, Samples or literature (for distribution to medical men and others) may be had on request.

THE BRITISH DRUG HOUSES, Ltd. 22 to 30 Graham Street, City Road, LONDON, N.